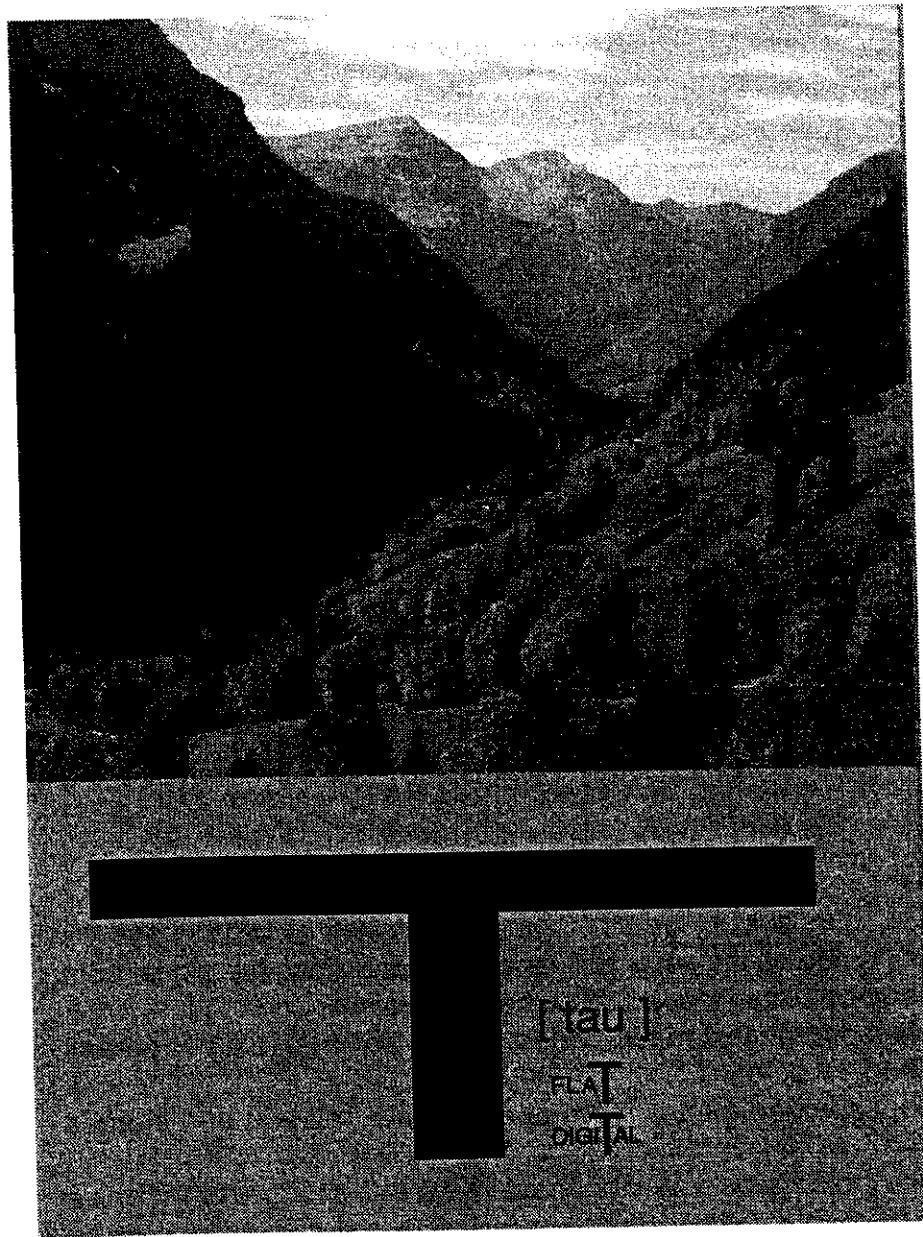


Panasonic

Projection Television Operating Instructions

Model No.

**TX-51P15 Series
TC-51P15 Series
TX-43P15 Series
TC-43P15 Series**



This is a combined Operating Instruction manual for all the above series of models. Please read these instructions before operating your set and retain them for future reference.

Dear Panasonic Customer

Welcome to the Panasonic family of customers. We hope that you will have many years of enjoyment from your new colour television set.

To obtain maximum benefit from your set, please read these Instructions before making any adjustments, and retain them for future reference.

Retain your purchase receipt also, and note down the Model Number and Serial Number of your set in the space provided on the rear cover of these Instructions.

Important Information

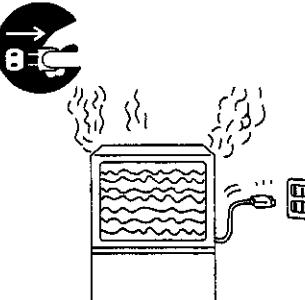
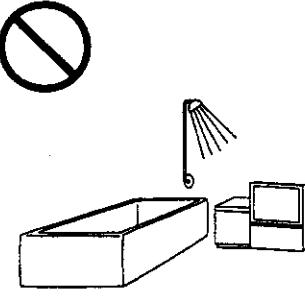
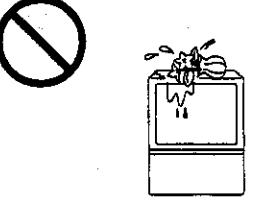
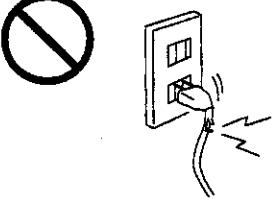
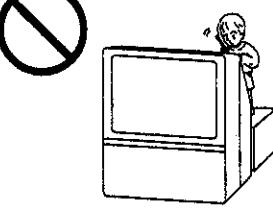
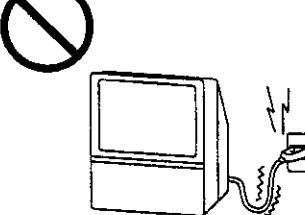
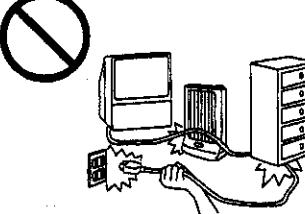
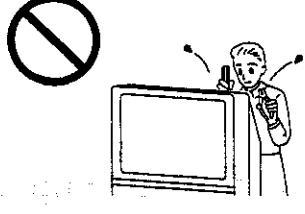
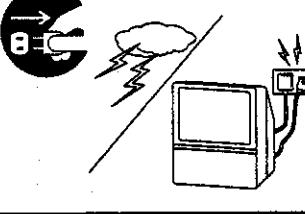
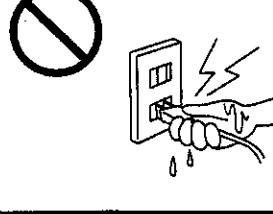
- (1) The long time (max. 2 hours) use of TV game on the set is not recommended since the signal from TV game may be the cause of damage on picture projection tubes on the set.
- (2) Do not allow a still picture to be displayed for an extended period, as this can cause a permanent after-image to remain on the Projection TV screen.
Examples of still pictures include logos, video games, computer images, teletext and images displayed in 16 : 9 mode.
If still picture cannot be avoided, reduce the brightness and contrast levels of the picture to minimize any damage that might occur.
- (3) In order to minimize any damage to the projection tubes, this set uses the PICTURE SHIFT function (Refer to page 46) to change (shift) the entire picture approximately 4 mm every 30 minutes.

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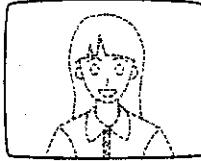
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Warnings and Cautions

⚠️ Warnings

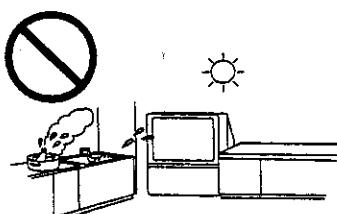
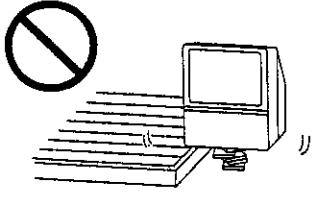
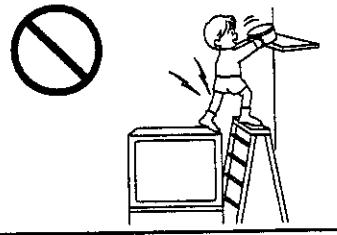
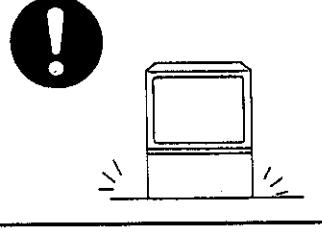
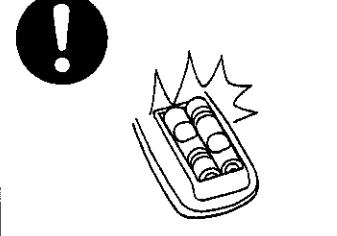
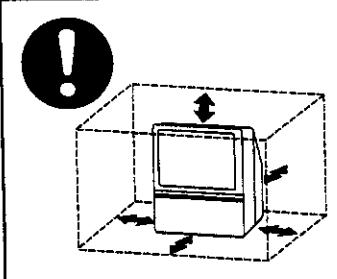
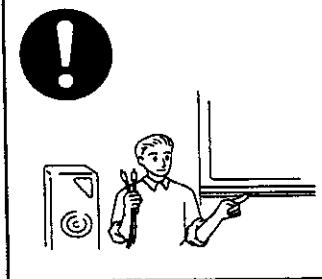
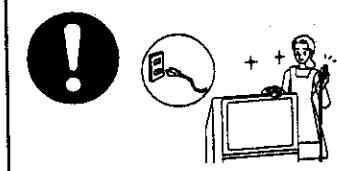
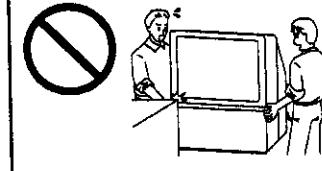
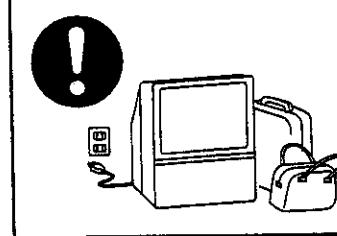
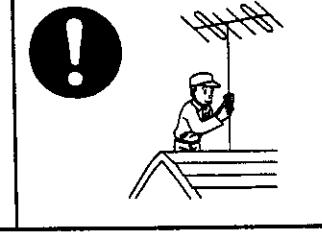
| | | | |
|--|---|--|--|
|  | <p>Unplug the power cord in the event of any malfunction (screen goes blank, no sound, odd sounds, smoke or unusual odors coming from the unit). Unplug the power cord if foreign matter or water falls into the unit, or if the unit is dropped or the cabinet is damaged.</p> |  | <p>DO NOT use this unit near water. (Near a bath tub, etc.)</p> |
|  | <p>DO NOT place any of the following on the unit: Flower vases, flower pots, cups, small metal objects, or cosmetics containers, chemicals or water.</p> |  | <p>DO NOT use if the power cord or power plug is damaged, or if the plug does not fit tightly into the socket.</p> |
|  | <p>DO NOT insert foreign objects (metal or easily flammable objects).</p> |  | <p>DO NOT use at a voltage other than indicated</p> |
|  | <p>TAKE CARE NOT to damage the power cord.</p> |  | <p>DO NOT remove the rear cover as live parts and High Voltage components are accessible when the rear cover is removed.</p> |
|  | <p>DO NOT touch the aerial cable and this unit when there is lightning.</p> |  | <p>DO NOT touch the power plug if your hands are wet.</p> |

⚠️ Cautions

| | |
|--|--|
|  afterimages appear | <p>Do not allow a still picture to be displayed for an extended period, as this can cause a permanent after-image to remain on the Projection TV screen. Examples of still pictures include logos, video games, computer images, teletext and images displayed in 16 : 9 mode.</p> |
|--|--|

Warnings and Cautions

⚠️ Cautions

| | | | |
|--|---|--|--|
|  | DO NOT place in humid or dusty location, or areas exposed to smoke or steam. DO NOT place in direct sunlight and other sources of direct heat. |  | DO NOT place in an unstable location |
|  | DO NOT stand, or place heavy objects on the unit. Particular care should be taken by families with small children. |  | Place in a safe location. |
|  | When inserting batteries, ensure that the polarities (positive and negative) are correctly aligned. Insert as shown on remote control. If inserted incorrectly, battery fluid may leak, and fire, injury, or damage to surrounding components may result. |  | Do not mix new and old batteries. Use only the specified batteries. Failure to follow this precaution may result in leakage of battery fluid. Fire, injury, or damage to surrounding components may also result. |
|  | Adequate ventilation is essential to prevent failure of electrical components, we recommend that a gap of at least 10 cm (↔) is left all around this unit even when it is placed inside a cabinet or between shelves. |  | Turn the power "Off" before connecting other electrical equipment. |
|  | Before cleaning, unplug the power plug from the socket. |  | DO NOT joint the unit. |
|  | Unplug the power plug from the socket if you are not going to use the unit for an extended period. |  | Ask your sales outlet to install the aerial. |

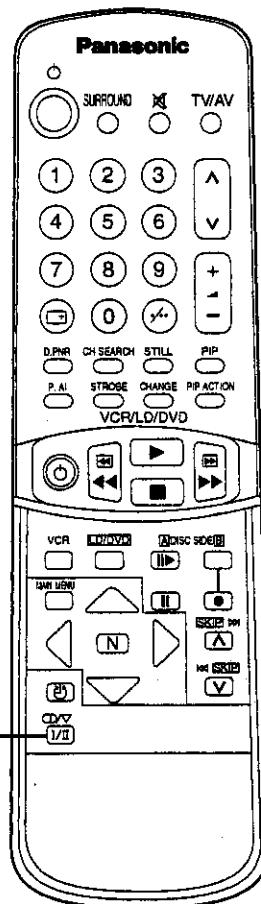
To ensure continued excellent performance by this product, periodic cleaning is recommended. See page 57 for more information.

Before Operating This Set

How to Use This Manual

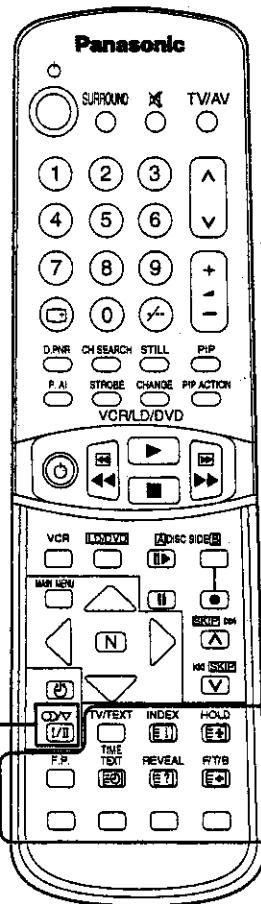
1. Check the Model Number of your TV set; the Model Number is shown on the rear cover name plate on the set. Use the table on the opposite page to confirm which features your particular Model is equipped with. This will help you to known which sections of the manual apply to your set.
2. Check the Part Number on the rear of your Remote Control handpiece, and note the functions available, as shown below.

TC-51P15G
TC-51P15H
TC-43P15G
TC-43P15H



Stereo / Bilingual Selection button

TX-51P15H
TX-51P15X
TX-43P15H
TX-43P15X



TELETEXT Operation button

Before Operating This Set

Quick Reference Guide for your TV Set

Please check the model number of your set.

This Manual applies to several Models and there are slight differences among them.

Please check the table below to see what your TV is equipped with before you begin using these Operating Instructions. Instructions are given for all functions, please disregard these which do not apply to your TV.

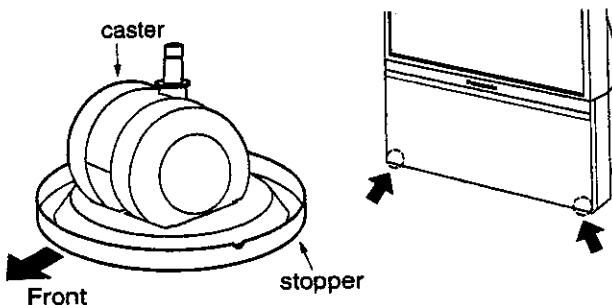
| Model Number | | TC-51P15G TC-43P15G | TC-51P15H TC-43P15H | TX-51P15H TX-43P15H | TX-51P15X TX-43P15X |
|----------------|----------------------------|------------------------|------------------------|------------------------|------------------------|
| Destination | China | * | | | |
| | Hong Kong | | * | | |
| | Southeast Asia | | | * | |
| | Australia | | | * | |
| | NZ | | | * | |
| | Middle East | | | | * |
| Multi Language | English | * | * | * | * |
| | Chinese | * | * | * | |
| | Arabic | | | | * |
| Power Source | AC 110-240 V 50 / 60 Hz | | | | * |
| | AC 220-240V 50 / 60 Hz | * | * | * | |

* : Function available

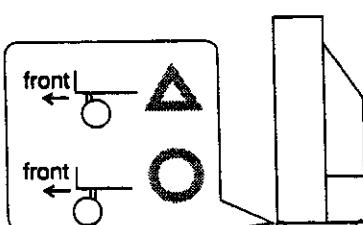
Securing the casters

To ensure safety, secure the casters in place using the supplied stoppers.

This set is equipped with casters to enable it to be easily moved. When positioning the set, place the supplied stoppers under the casters to secure the casters and prevent the set from moving.

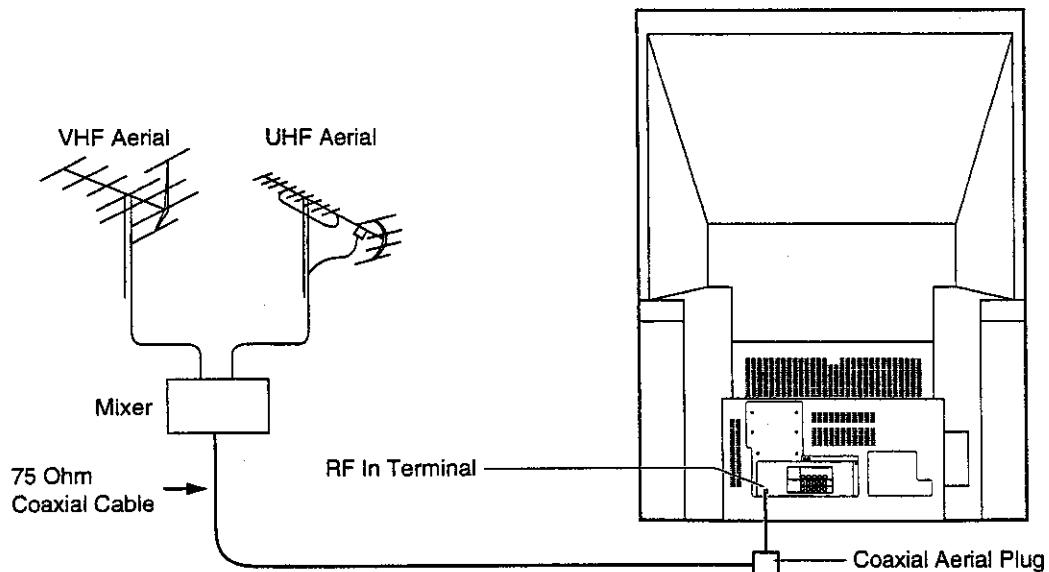


To prevent the set from tipping forward, turn the two casters on the front of the TV so they face forward, as shown in the picture.



Before Operating This Set

Connecting the Aerial Cable to the RF In Terminal

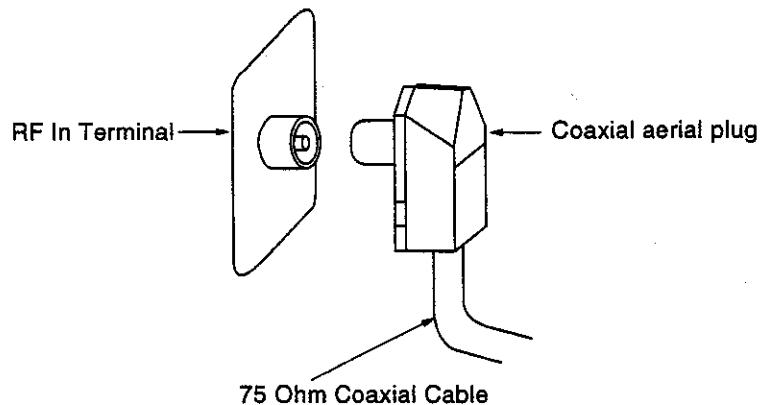


To obtain optimum quality picture and sound, an Aerial, the correct cable (75 Ohm coaxial) and the correct terminating plug are required.

If a communal Aerial system is used, you may require the correct connection cable and plug between the wall Aerial socket and your set.

Your local Television Service Centre or Dealer may be able to assist you in obtaining the correct Aerial system for your particular area and accessories required.

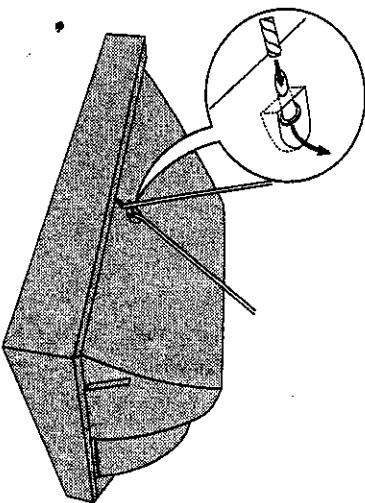
Any matters regarding Aerial installation, upgrading of existing systems or accessories required, and the costs incurred, are the responsibility of you, the Customer.



Safety Precaution

Please take safety precautions to prevent the unit from falling over.

The unit may fall over during earthquakes, or if someone stands on or shakes the TV.

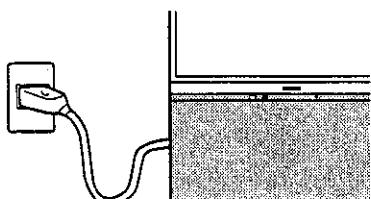


Fixing to a wall

Use a strong rope or a chain to fasten the TV firmly to a strong support such as a wall or a pillar.

Before Operating This Set

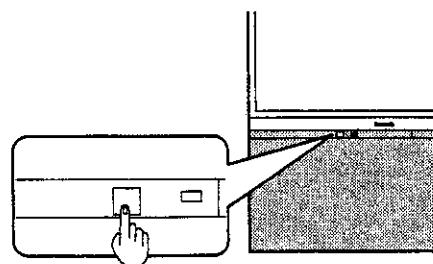
Connecting the Plug to the Wall Outlet



Note:

Main plug types vary between countries. The main plug shown at left may therefore not be the type fitted to your set.
When connecting the main plug to the wall outlet, the power indicator will light (Orange).

How to Turn the Power On



Push the Power switch on Television to turn the set on.
The Power Indicator will light.

Power-OFF Orange
Stand-by ⏻ Red
Power-ON Green

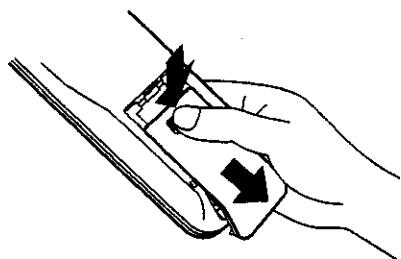
Note:

When in the Stand-by condition (Refer to page 32), it is possible to turn the TV set on by pushing the "Power (Stand-by)" button any of the "Direct Programme Number Selection" buttons (0 ~ 9) and Programme Number Up and Down buttons on the TV set or Remote Control.

Battery Installation

1 Open the cover.

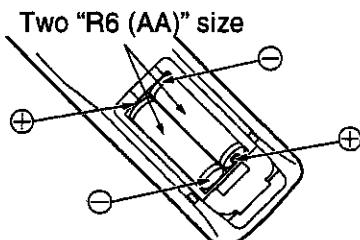
Apply slight downward pressure while pulling towards the bottom.



2

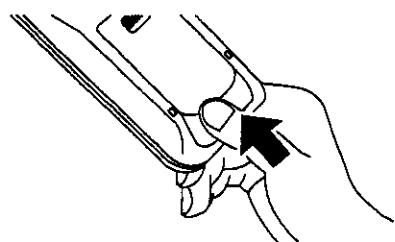
Batteries: Use two "R6 (AA)" size batteries.

Insert the batteries ensuring correct polarity.
This is identifiable by the "+" and "-" symbols on both the batteries and inside the battery compartment.



3

Replace the cover.



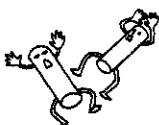
Do not use rechargeable (Ni-Cd) batteries.

They are different in shape and performance and may fail to ensure correct operation.

⚠ Battery cautions

The incorrect use of batteries can cause electrolyte leakage which will corrode the Remote Control or cause the batteries to burst.

Old Batteries



New Batteries



Replace both batteries at the same time.



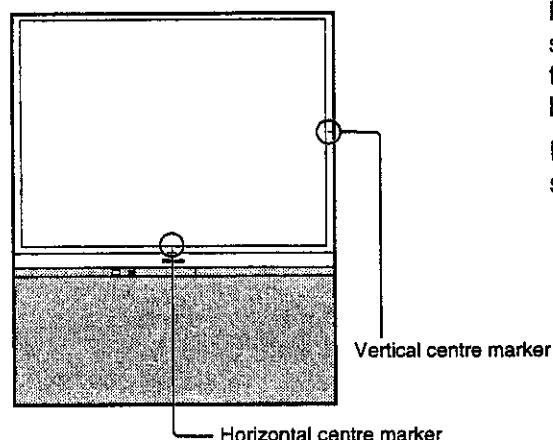
Don't mix battery types
(alkaline with carbon zinc, etc.)



Don't Recharge.

Convergence Adjustment

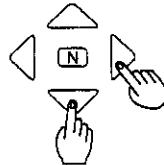
Convergence Adjustment mode



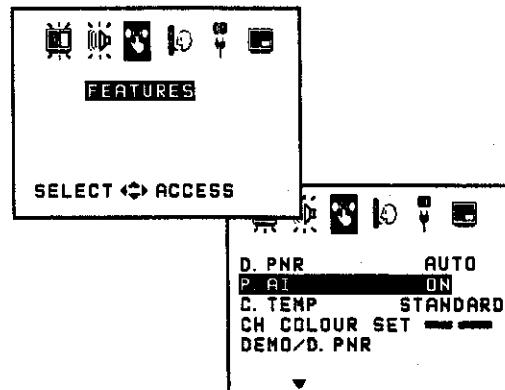
Prior to adjustment, tune the broadcast signal to the video input signal and operate the set for more than 60 minutes. If the location or direction of the set is changed or moved, the display may be out of alignment.

If necessary, carry out the following procedures once with PAL signal and again with the NTSC signal.

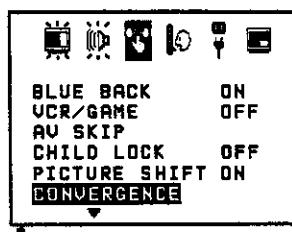
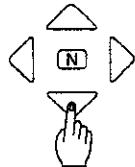
- 1 Push the "Main Menu" button.



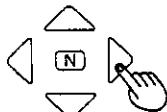
Select the "FEATURES" menu by using the Position Left "<" or Right ">" button.
Push the Position Up "▲" or Down "▼" button to enter FEATURES function.



- 2 Select the "CONVERGENCE" menu by using the Position Up "▲" or Down "▼" button.



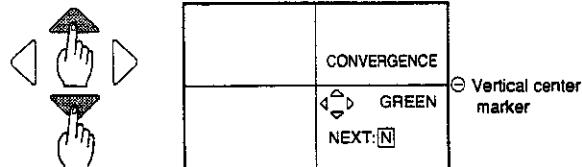
- 3 Push the Position Left "<" or Right ">" button to enter CONVERGENCE ADJUSTMENT mode.



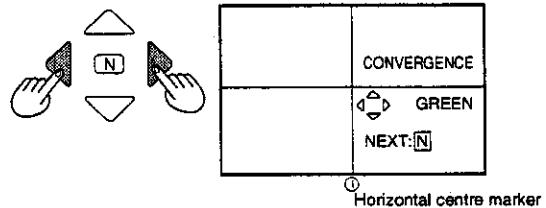
Convergence Adjustment

Convergence Adjustment for GREEN, RED and BLUE

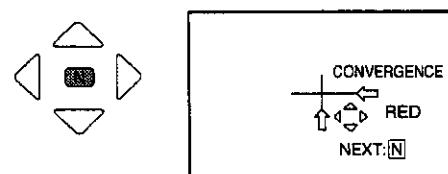
Use the Position Up "↑" or Down "↓" button to align the horizontal green line with the vertical centre marker.



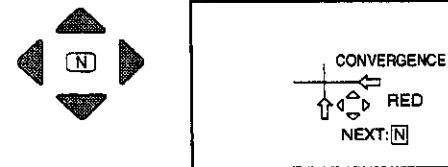
Use the Position Left "<" or Right ">" button to align the vertical green line with the horizontal centre marker.



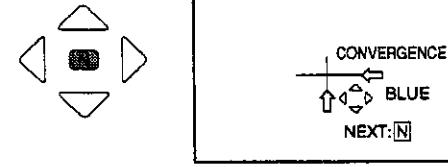
Push the "N" button to adjust the red mode.
(Stores green)



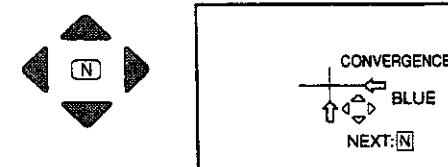
Use the Position Up "↑" or Down "↓" , Left "<" or Right ">" buttons to align the red line with the green line. (Becomes a yellow line)



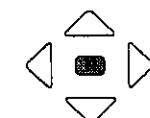
Push the "N" button to adjust the blue mode.
(Stores red)



Use the Position Up "↑" or Down "↓" , Left "<" or Right ">" buttons to align the blue line with the yellow line. (Becomes a white line)



Push the "N" button to return to the normal viewing. (Stores blue)



If you wish to view a video with a different colour system (PAL / SECAM, NTSC), repeat the steps above while displaying a picture.

Location of Controls

Remote Control

Surround (page 40) _____

Power (Stand-by) (page 32) _____

Direct Programme Number Selection (page 32) _____

Recall (page 33) _____

Channel Search (page 38) _____

D.PNR (page 39) _____

Strobe (page 38) _____

P.AI (page 39) _____

VCR / LD / DVD Play (page 55) _____

VCR / LD / DVD Rewind / Review (page 55) _____

VCR / LD / DVD Power (page 55) _____

LD / DVD button (page 54) _____

VCR button (page 54) _____

Main Menu (page 18) _____

Normalization (page 42, 43) _____

Position button _____

Off Timer button (page 33) _____

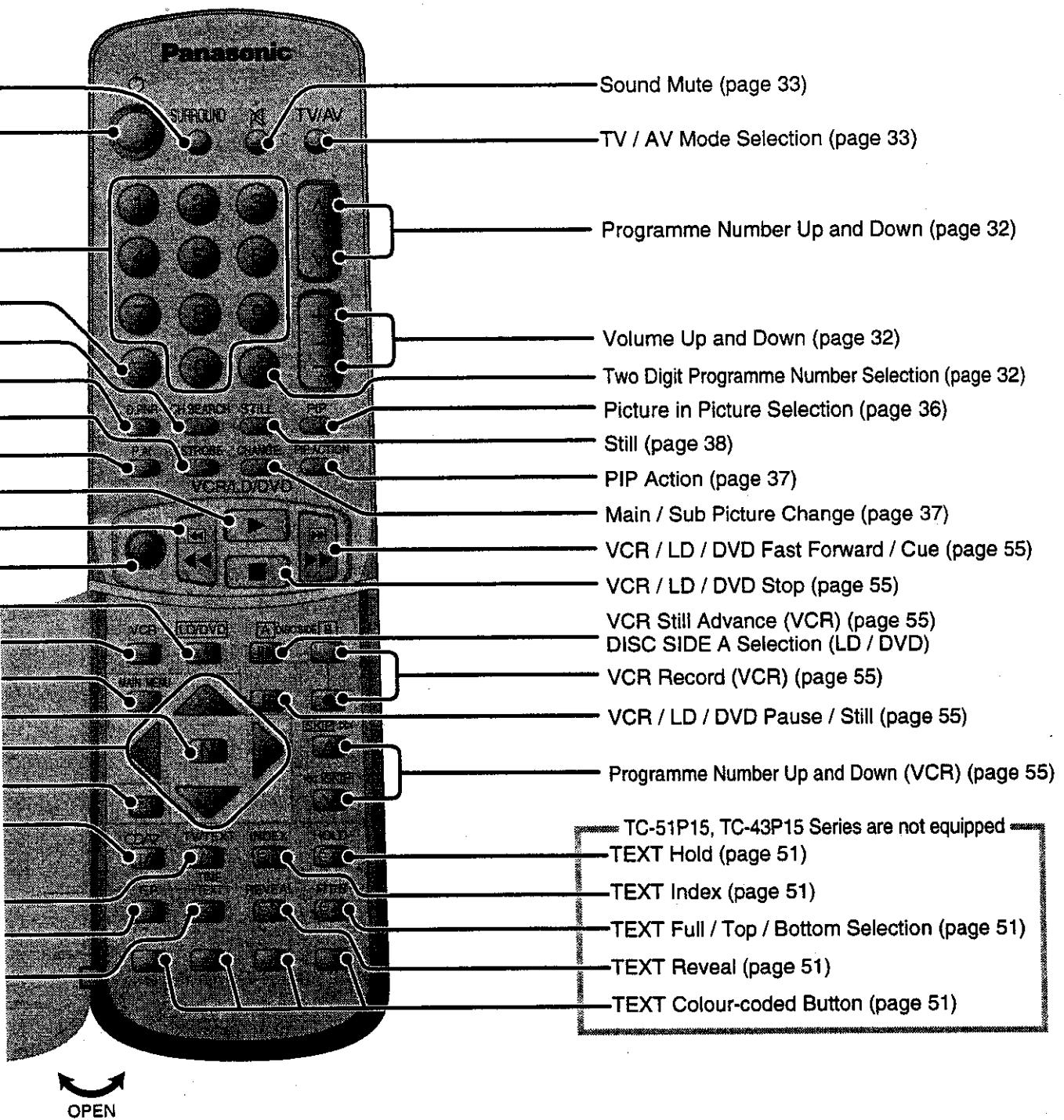
Stereo / Bilingual Sound Selection (page 41) _____

TC-51P15, TC-43P15 Series are not equipped _____

• TV / TEXT Selection (page 51) _____

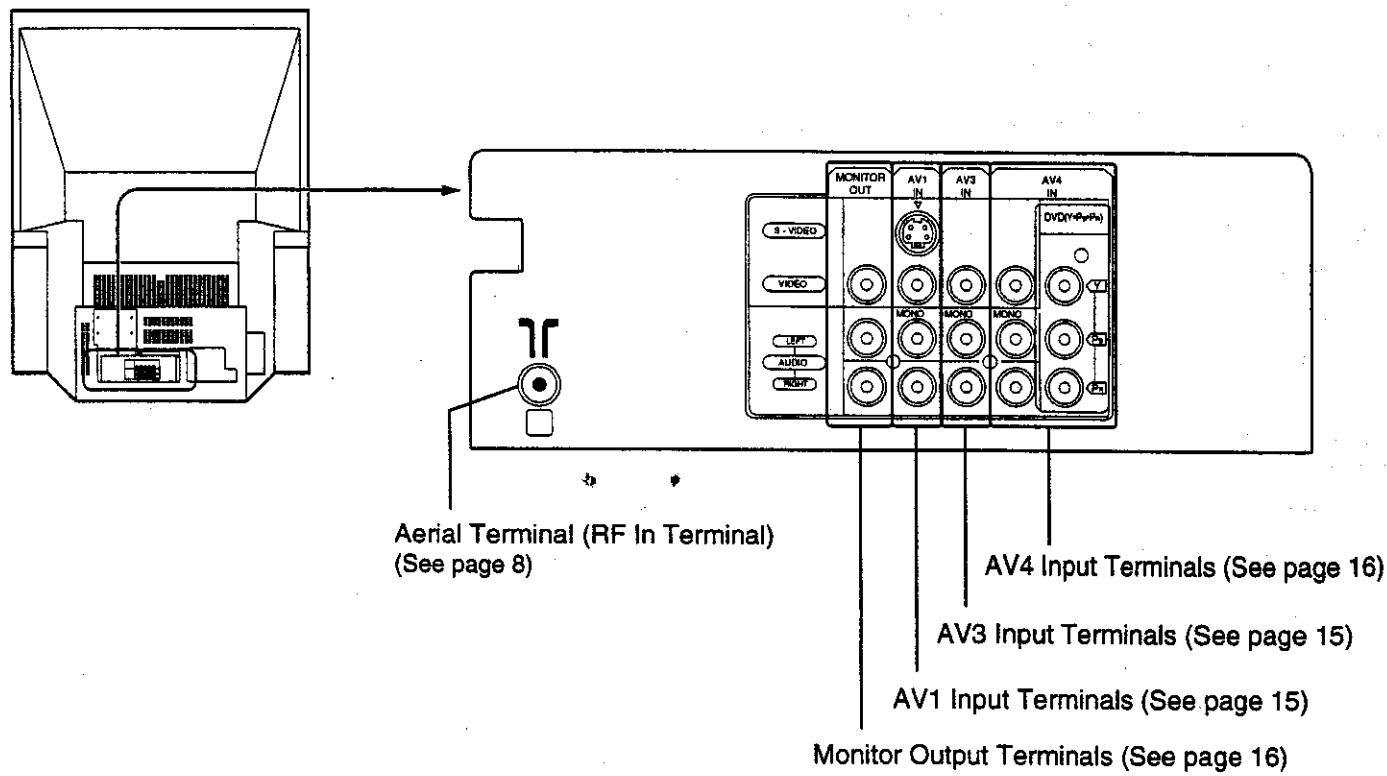
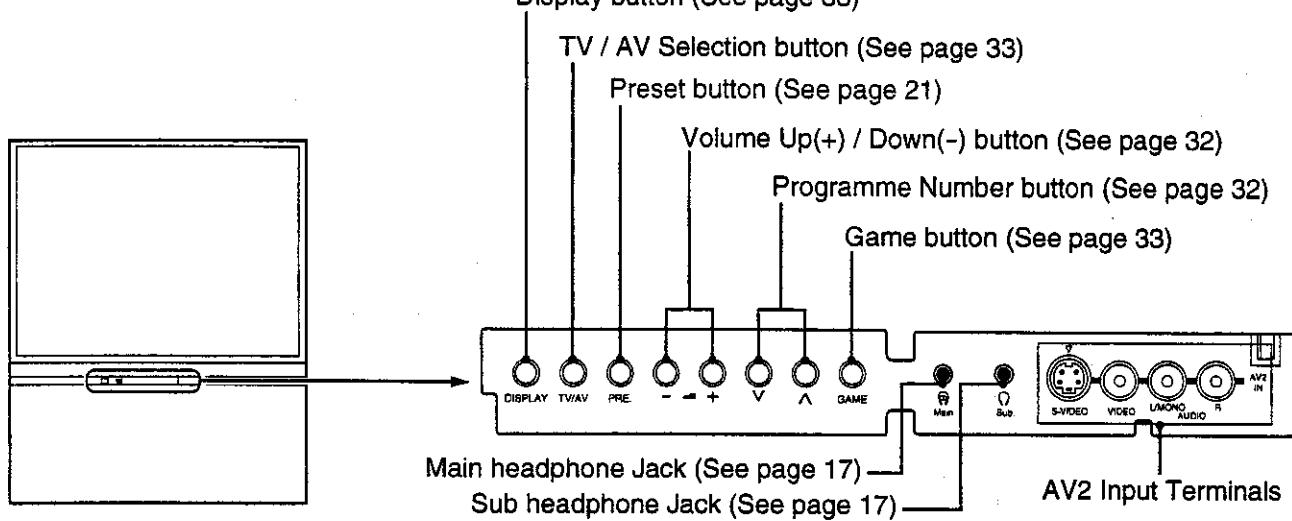
TEXT Favourite Page Selection (page 51) _____

Time TEXT (page 52) _____



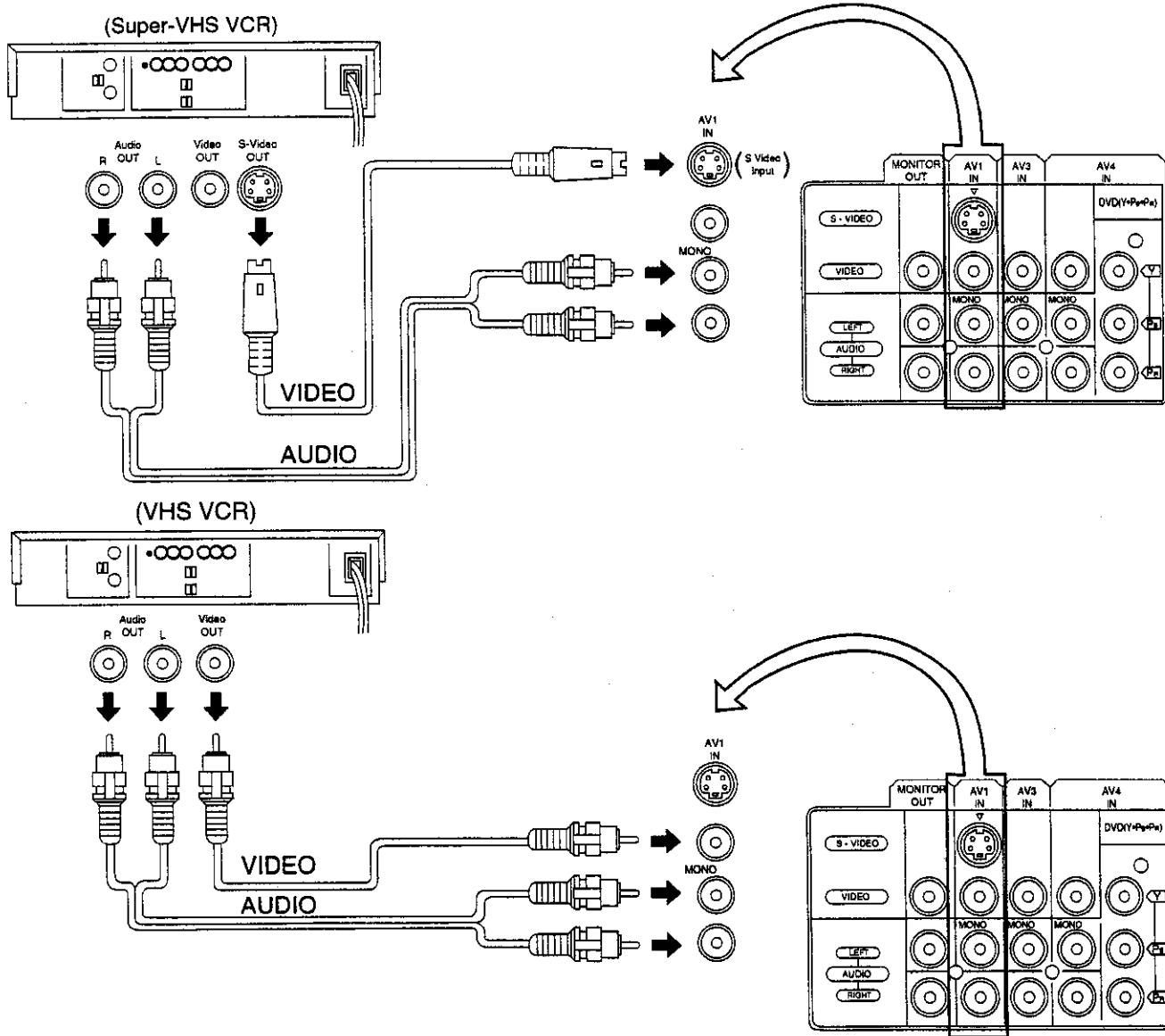
Location of Controls

Controls and Terminals on the TV



Connections

How to connect the “AV1, 2, 3 or 4” Input Terminals

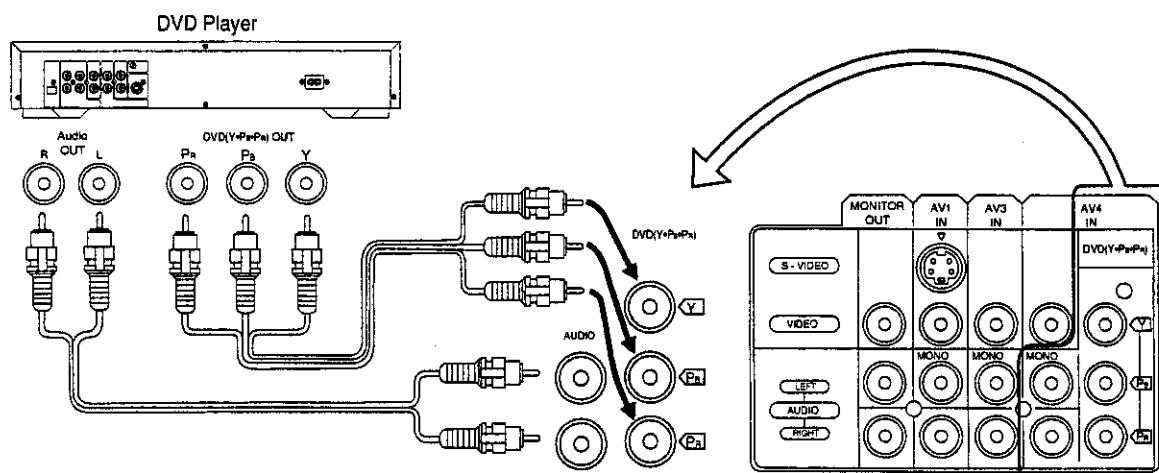


Note:

- (1) When AV1, AV2, AV3 or AV4 is selected, and that AV mode has no input picture signal, the Background Colour of the TV screen will change. (This only occurs if the Blue-Back function is set to the ON condition; refer to page 45 for details.)
- (2) When an S-Video cable is connected to the S-Video terminal, the Video input will be automatically switched off for that AV mode.
- (3) When a Monaural VCR is used, connect the Monaural Audio cable to the Audio "L" (Left) terminal.
- (4) Similar connections are available at the AV1, AV2, AV3 and AV4 input terminals.
Select the desired AV input position by pushing the TV/AV button. (Refer to page 33)
- (5) The AV4 audio input terminals serves as the audio input terminal for both the Video input and for the DVD input.

Connections

How to connect the DVD Input Terminals

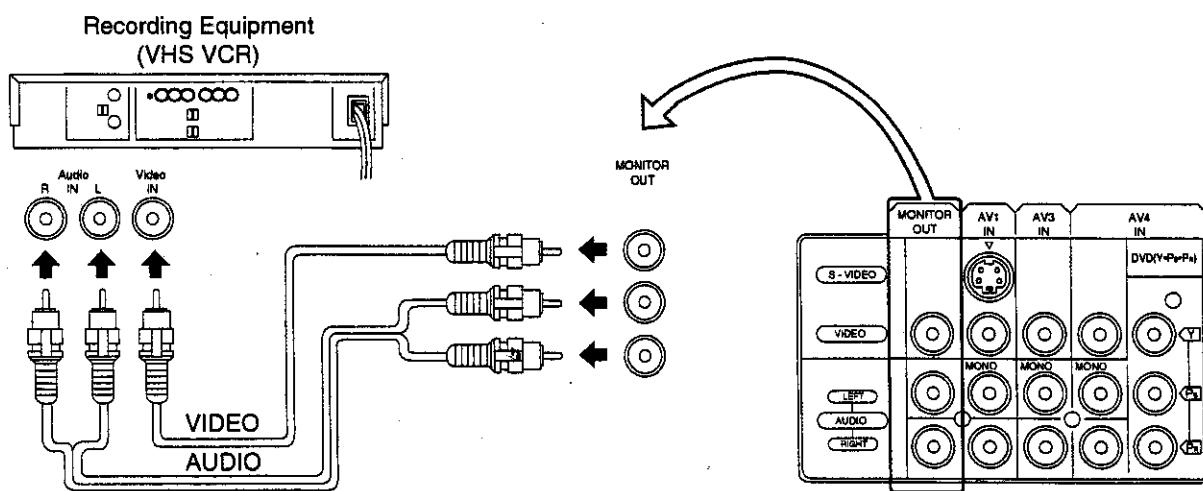


Note:

- (1) The AV4 audio signal is common for both AV4 and DVD input signal terminals.
- (2) The DVD signal input terminal takes priority over the AV4 video signal input terminal.

How to connect the AV Monitor Output Terminals to other equipment.

The "Monitor Out" Terminals output the same signals as main picture on the TV screen and sound from the speaker at that time, e.g. TV programmes or signals from AV1, AV2, AV3 or AV4 input.



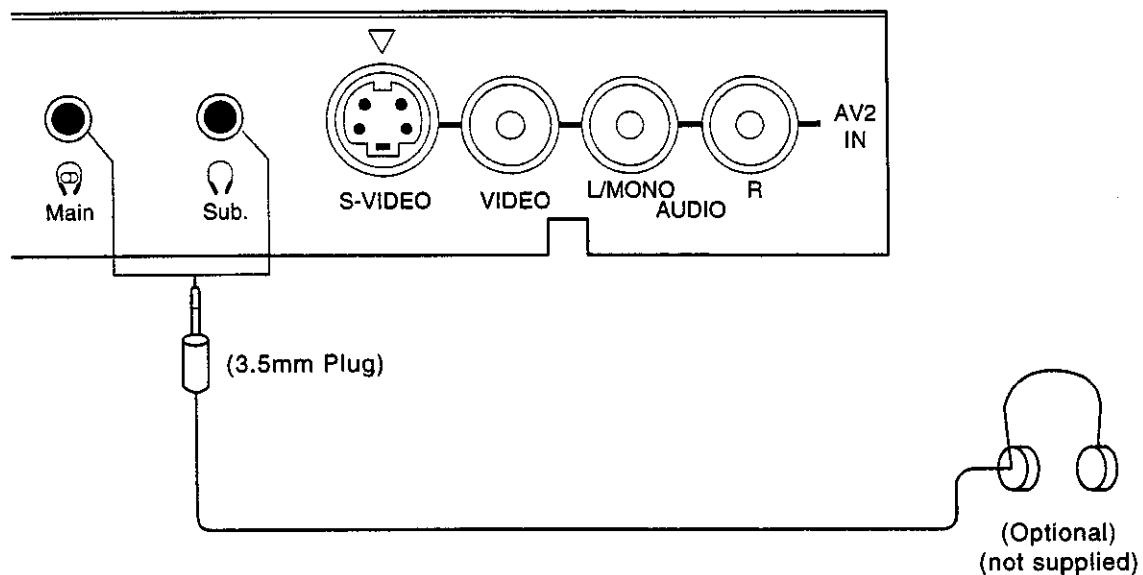
Note:

- (1) Never connect the same video recorder with both the VIDEO IN and MONITOR OUT terminals on this TV set, as this could cause incorrect operation.
- (2) The monitor output emits the main picture normal video and audio signals.
- (3) Teletext display on screen will not be output at the MONITOR OUT terminals.
- (4) Even if the television is in picture-in-picture condition, MONITOR OUT terminals output the same signals as main picture on the screen and sound from speakers. Sub picture including strobe, still, channel search, etc. will not be output at the MONITOR OUT terminals.
- (5) DVD signal (Y, Pb, Pr) are not output at the MONITOR out terminals.

Connections

Connecting Headphones

Connect headphones as follows.



You can listen to sound from each of the headphones plugs as shown below.

| Screen condition | | Speaker Sound | Main Headphones | Sub Headphones | Monitor Output |
|-------------------------------|--------|---------------|-----------------|----------------|----------------|
| Single picture/ Teletext | A | A (Stereo) | A (Stereo) | A (Mono) | A (Stereo) |
| Picture in Picture | A B | A (Stereo) | A (Stereo) | B (Mono) | A (Stereo) |
| Picture in Picture/ CHANGE | B A | B (Stereo) | B (Stereo) | A (Mono) | B (Stereo) |

Main Headphones plug:

When a Main Headphones plug is inserted into the Headphones socket, all speakers will be automatically disconnected; only the Main Headphones will function.

Use Volume Up "+" or Down "-" button to control volume level.

Sub Headphones plug:

For the sub Headphones volume control, refer to page 37.

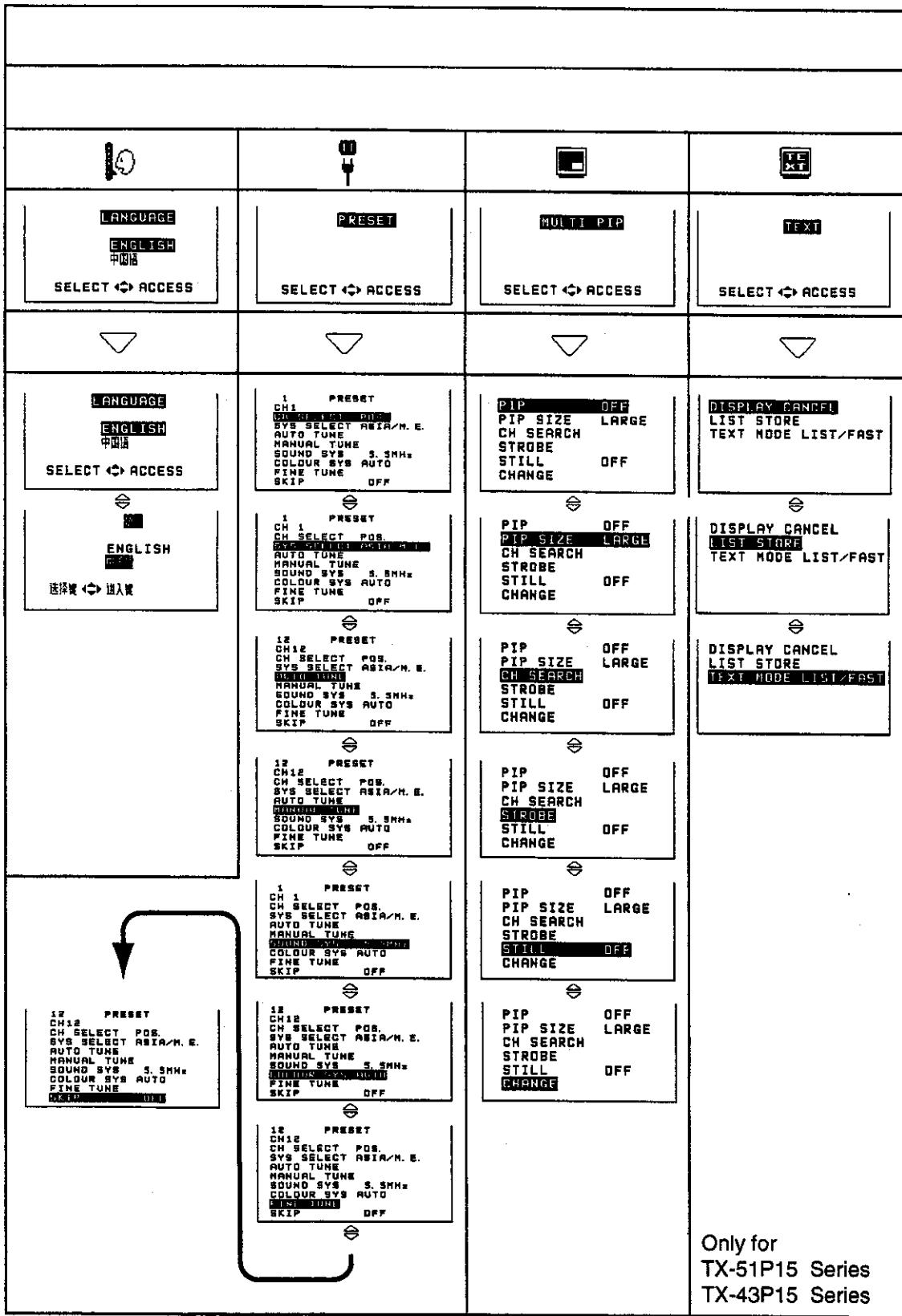
Flow Chart of Main menu

When the "MAIN MENU" button is pushed at the Main menu screen, the screen display will return to the normal viewing condition.

When the "MAIN MENU" button is pushed at each menu screen (Picture, Sound, Features, Language, Preset, Multi PIP), the screen display will return to the Main menu screen.

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Push | MAIN MENU | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Select | <> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Symbol . Mark | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| On-Screen Indication | SELECT ↔ ACCESS | SELECT ↔ ACCESS | SELECT ↔ ACCESS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Push | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| On-Screen Indication (example) | <div style="border: 1px solid black; padding: 5px;"> <p>MENU DYNAMIC</p> <ul style="list-style-type: none"> <input checked="" type="radio"/> 32 COLOUR <input type="radio"/> 32 NTSC-TINT <input type="radio"/> 32 BRIGHT <input type="radio"/> 63 CONTRAST <input type="radio"/> 32 SHARPNESS </div> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>MENU DYNAMIC</p> <ul style="list-style-type: none"> <input checked="" type="radio"/> 32 COLOUR <input type="radio"/> 32 NTSC-TINT <input type="radio"/> 32 BRIGHT <input type="radio"/> 63 CONTRAST <input type="radio"/> 32 SHARPNESS </div> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>MENU DYNAMIC</p> <ul style="list-style-type: none"> <input checked="" type="radio"/> 32 COLOUR <input type="radio"/> 32 NTSC-TINT <input type="radio"/> 32 BRIGHT <input type="radio"/> 63 CONTRAST <input type="radio"/> 32 SHARPNESS </div> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>MENU DYNAMIC</p> <ul style="list-style-type: none"> <input checked="" type="radio"/> 32 COLOUR <input type="radio"/> 32 NTSC-TINT <input type="radio"/> 32 BRIGHT <input type="radio"/> 63 CONTRAST <input type="radio"/> 32 SHARPNESS </div> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>MENU DYNAMIC</p> <ul style="list-style-type: none"> <input checked="" type="radio"/> 32 COLOUR <input type="radio"/> 32 NTSC-TINT <input type="radio"/> 32 BRIGHT <input type="radio"/> 63 CONTRAST <input type="radio"/> 32 SHARPNESS </div> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>MENU DYNAMIC</p> <ul style="list-style-type: none"> <input checked="" type="radio"/> 32 COLOUR <input type="radio"/> 32 NTSC-TINT <input type="radio"/> 32 BRIGHT <input type="radio"/> 63 CONTRAST <input type="radio"/> 32 SHARPNESS </div> | <div style="border: 1px solid black; padding: 5px;"> <p>MENU DYNAMIC</p> <ul style="list-style-type: none"> <input type="radio"/> 40 BASS <input checked="" type="radio"/> 45 TREBLE <input type="radio"/> 432 BALANCE SURROUND OFF </div> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>MENU DYNAMIC</p> <ul style="list-style-type: none"> <input type="radio"/> 40 BASS <input checked="" type="radio"/> 45 TREBLE <input type="radio"/> 432 BALANCE SURROUND OFF </div> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>MENU DYNAMIC</p> <ul style="list-style-type: none"> <input type="radio"/> 40 BASS <input checked="" type="radio"/> 45 TREBLE <input type="radio"/> 432 BALANCE SURROUND OFF </div> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>MENU DYNAMIC</p> <ul style="list-style-type: none"> <input type="radio"/> 40 BASS <input checked="" type="radio"/> 45 TREBLE <input type="radio"/> 432 BALANCE SURROUND STEREO </div> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>MENU DYNAMIC</p> <ul style="list-style-type: none"> <input type="radio"/> 40 BASS <input checked="" type="radio"/> 45 TREBLE <input type="radio"/> 432 BALANCE SURROUND STEREO </div> | <div style="border: 1px solid black; padding: 5px;"> <p>D. 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| VCR/GAME | OFF | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| CHILD LOCK | OFF | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PICTURE SHIFT | ON | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| VCR/GAME | OFF | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AV SKIP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CHILD LOCK | OFF | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PICTURE SHIFT | ON | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CONVERGENCE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| VCR/GAME | OFF | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AV SKIP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CHILD LOCK | OFF | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PICTURE SHIFT | ON | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CONVERGENCE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| VCR/GAME | OFF | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AV SKIP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CHILD LOCK | OFF | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PICTURE SHIFT | ON | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CONVERGENCE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| VCR/GAME | OFF | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AV SKIP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CHILD LOCK | OFF | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PICTURE SHIFT | ON | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CONVERGENCE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| VCR/GAME | OFF | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AV SKIP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CHILD LOCK | OFF | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PICTURE SHIFT | ON | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CONVERGENCE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Some default settings may be different for TX/TC-43P15 series and TX/TC-51P15 series.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

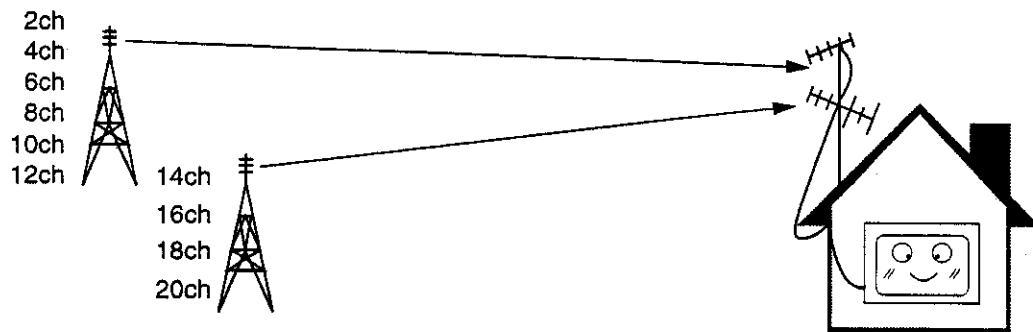
Flow Chart of Main menu



Tuning Procedure

Channel Selection

Select the most easily viewed channel selection method.



Example

| Programme Number | Channel Display | Received Channel |
|------------------|-----------------|------------------|
| 1 | 2 | 2 |
| 2 | 4 | 4 |
| 3 | 6 | 6 |
| 4 | 8 | 8 |
| 5 | 10 | 10 |
| 6 | 12 | 12 |
| 7 | 14 | 14 |
| 8 | 16 | 16 |
| 9 | 18 | 18 |
| 10 | 20 | 20 |

POSITION SELECT

When the Channel Selection is on POS. (Position), and Auto Tune is performed, the unit memories the channels tuned in order from programme No.1.

Push the button ① to view channel 2.

Push the button ② to view channel 4.

Push the button ③ to view channel 6.

During position mode various reception channels can be viewed.

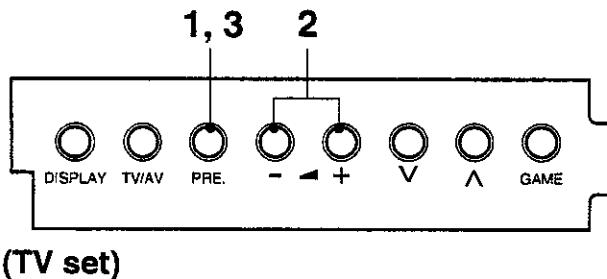
Example

| Programme Number | Channel Display | Received Channel |
|------------------|-----------------|------------------|
| 1 | - | - |
| 2 | 2 | 2 |
| 3 | - | - |
| 4 | 4 | 4 |
| 5 | - | - |
| 6 | 6 | 6 |
| 7 | - | - |
| 8 | 8 | 8 |
| 9 | - | - |
| 10 | 10 | 10 |
| : | : | : |
| 20 | 20 | 20 |
| : | : | : |

DIRECT SELECT

When the Channel Selection is on DIRECT, and Auto Tune is performed, the unit memories the programme number which is the same as the channel tuned. This method allows you to select the desired channel by pushing the channel display number directly on the remote control to select the station. The channel display numbers for the broadcast stations in each region are listed on page 23.

Tuning Procedure



(TV set)

Before Regional System Selection and AUTO tuning, set the "CHANNEL SELECT" mode, as detailed below.



1 Push the "PRE." (PRESET) button, setting the Preset Menu to "CH SELECT".

1 PRESET
CH1
CH SELECT POS.
SYS SELECT ASIA/M. E.
AUTO TUNE
MANUAL TUNE
SOUND SYS 5.5MHz
COLOUR SYS AUTO
FINE TUNE
SKIP OFF

"CH SELECT" Condition



2 Select the "CH SELECT (Channel Select)" Mode by pushing the Volume Up "+" or Down "-" button.

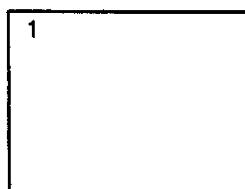
1 PRESET
CH1
CH SELECT POS.
SYS SELECT ASIA/M. E.
AUTO TUNE
MANUAL TUNE
SOUND SYS 5.5MHz
COLOUR SYS AUTO
FINE TUNE
SKIP OFF

Setting range when the "POS." (Position) has been selected: Position 0-99
Setting range when the "DIRECT" has been selected: Channel 0-125

The channel select indicator will change as follows.
DIRECT \leftrightarrow POS.



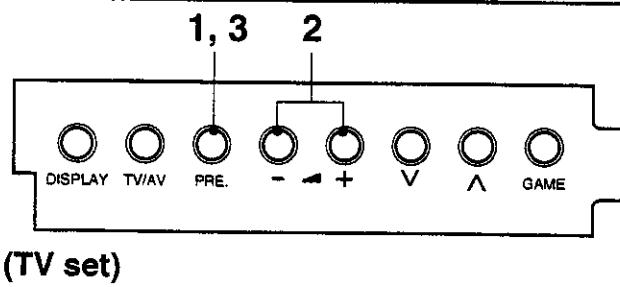
3 Push the "PRE." (PRESET) button 8 times.



This returns the set to the normal viewing condition.

Tuning Procedure

Regional System Selection



Before AUTO tuning and MANUAL tuning, set the "SYSTEM SELECT" mode, as detailed below.



Push the "PRE." (PRESET) button twice, setting the Preset Menu to "SYS SELECT".

1 PRESET
CH 1
CH SELECT POS.
SYS SELECT ASIA/M. E.
AUTO TUNE
MANUAL TUNE
SOUND SYS 5. 5MHz
COLOUR SYS AUTO
FINE TUNE
SKIP OFF

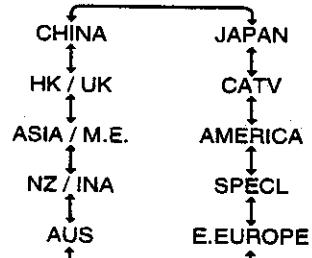
"SYS SELECT" Condition.



Select the appropriate System by pushing the Volume Up "+" or Down "-" button.

1 PRESET
CH 1
CH SELECT POS.
SYS SELECT ASIA/M. E.
AUTO TUNE
MANUAL TUNE
SOUND SYS 5. 5MHz
COLOUR SYS AUTO
FINE TUNE
SKIP OFF

The system select indicator will change as follows.



Push the "PRE." (PRESET) button 7 times.

This returns the set to the normal viewing condition.

System Select by Regional

| SYSTEM SELECT | Region |
|---------------|--|
| CHINA | China |
| HK / UK | Hong Kong, United Kingdom |
| ASIA / M.E. | Malaysia, Singapore, Thailand, Asia countries, Kuwait, Saudi Arabia, United Arab Emirates, Middle East countries, etc. |
| NZ / INA | New Zealand, Indonesia, etc. |
| AUS | Australia |
| E. EUROPE | CIS, Poland, etc. |
| SPECL | South Africa |
| AMERICA | U.S.A., Chile, Mexico, Panama, Peru, Philippines, Taiwan, Venezuela, etc. |
| CATV | USA CATV |
| JAPAN | Japan |

Tuning Procedure

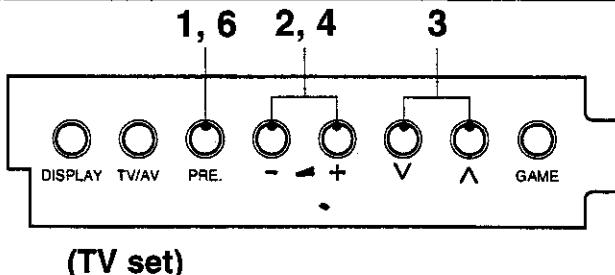
Channel Allocation

- CATV (USA CATV) channel numbers as recommended by the joint EIA/NCTA Engineering committee and published as EIA INTERIM STANDARD No.6-CABLE TELEVISION CHANNEL IDENTIFICATION PLAN-MAY 1983.
- The receiving channels are as follows;

| SYS SELECT | CHINA | HK/UK | ASIA/M.E. | NZ/INA | AUS | E.EUROPE | SPECL | AMERICA | CATV | JAPAN |
|------------|-----------------|-------|-----------|--------|-----|----------|-------|---------|------|-------|
| CH DISPLAY | RECEIVE CHANNEL | | | | | | | | | |
| 0 | - | - | - | - | 0 | - | - | - | - | - |
| 1 | 1 | - | - | 1 | 1 | 1 | 1 | - | 1 | 1 |
| 2 | 2 | - | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 11 | - | - | 11 | 11 | 11 | 11 | 11 | - | - | - |
| 12 | 12 | - | 12 | - | 12 | 12 | 12 | - | - | - |
| 13 | 13 | - | - | - | - | - | 13 | 13 | 12 | 13 |
| 14 | - | - | - | - | - | - | - | - | - | - |
| 15 | - | - | - | - | 5A | - | - | - | - | - |
| 19 | - | - | - | - | 9A | - | - | - | - | - |
| 20 | - | - | - | - | - | - | - | - | - | - |
| 21 | - | 21 | 21 | 21 | 21 | 21 | 21 | - | - | - |
| 28 | - | - | - | - | - | - | - | - | - | - |
| 57 | 57 | - | - | - | - | - | - | - | - | - |
| 58 | - | - | - | - | - | - | - | - | - | - |
| 62 | - | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 |
| 63 | - | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | C13 |
| 69 | - | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | - |
| 70 | - | - | - | - | E65 | - | - | - | - | - |
| 73 | - | - | - | - | - | - | - | - | - | - |
| 74 | - | S'1 | S'1 | S'1 | E69 | S'1 | S'1 | - | - | - |
| 75 | - | S'2 | S'2 | S'2 | S01 | - | S'2 | - | - | - |
| 76 | - | S'3 | S'3 | S'3 | S02 | - | S'3 | - | - | - |
| 77 | - | - | - | - | S03 | - | - | - | - | - |
| 78 | - | - | - | - | - | - | - | - | - | - |
| 79 | - | - | - | - | - | - | - | - | - | - |
| 80 | - | S1 | S1 | S1 | S1 | S1 | S1 | - | - | - |
| 81 | Z1 | S2 | S2 | S2 | S2 | S2 | S2 | - | - | - |
| 89 | Z9 | S10 | S10 | S10 | S10 | S10 | S10 | - | - | - |
| 90 | Z10 | S11 | S11 | S11 | S11 | S11 | - | - | - | - |
| 91 | Z11 | S12 | S12 | S12 | S12 | S12 | - | - | - | - |
| 92 | Z12 | S13 | S13 | S13 | S13 | S13 | - | - | - | - |
| 93 | Z13 | S14 | S14 | S14 | S14 | S14 | S14 | - | - | - |
| 94 | Z14 | S15 | S15 | S15 | S15 | S15 | S15 | - | - | - |
| 95 | Z15 | S16 | S16 | S16 | S16 | S16 | S16 | - | - | - |
| 96 | Z16 | S17 | S17 | S17 | S17 | S17 | S17 | - | - | - |
| 97 | Z17 | S18 | S18 | S18 | S18 | S18 | S18 | - | - | - |
| 98 | Z18 | S19 | S19 | S19 | S19 | S19 | S19 | - | - | - |
| 99 | Z19 | S20 | S20 | S20 | S20 | S20 | S20 | - | 99 | C49 |
| 100 | Z20 | S21 | S21 | S21 | S21 | S21 | S21 | - | 100 | - |
| 117 | Z37 | - | - | - | - | - | - | - | - | - |
| 120 | - | S41 | S41 | S41 | S41 | S41 | S41 | - | - | - |
| 125 | - | - | - | - | - | - | - | - | 125 | - |

Tuning Procedure

Automatic Tune (Channel Select and Regional System must already be set; Refer to pages 20 to 23)



This TV uses automatic tuning to determine whether or not a broadcast signal is being sent which it can receive, and automatically prepares so that the channel selection can respond to both the position select and direct select modes.

1 Push the "PRE." (PRESET) button 3 times.

```

1      PRESET
CH 1
CH SELECT POS.
SYS SELECT ASIA/M. E.
AUTO TUNE
MANUAL TUNE
SOUND SYS 5. 5MHz
COLOUR SYS AUTO
FINE TUNE
SKIP      OFF

```

Automatic Search "AUTO TUNE" Condition.

2 Push the Volume Up "+" or Down "-" button.

Search Start.

The best tuning position is automatically memorized.

3 After all stations are tuned, the on-screen display will automatically change from "AUTO TUNE" to "SOUND SYS" Position. Confirm the sound condition of each Programme Number by using the Programme Number Up " "^ button.

```

1      PRESET
CH 1
CH SELECT POS.
SYS SELECT ASIA/M. E.
AUTO TUNE
MANUAL TUNE
SOUND SYS 5. 5MHz
COLOUR SYS AUTO
FINE TUNE
SKIP      OFF

```

If the Sound is not clear or no sound is produced on a Programme Number, then follow the next Step 4.

Note:

When sound volume is too small to confirm, turn it up by using the sound volume button on the remote control.

4 If necessary, push the Volume Up "+" or Down "-" button, to improve the Sound quality.

```

1      PRESET
CH 1
CH SELECT POS.
SYS SELECT ASIA/M. E.
AUTO TUNE
MANUAL TUNE
SOUND SYS 5. 5MHz
COLOUR SYS AUTO
FINE TUNE
SKIP      OFF

```

The sound indicator will change as follows.

4.5MHz \longleftrightarrow 5.5MHz
 \uparrow \downarrow
6.5MHz \longleftrightarrow 6.0MHz

Tuning Procedure

5



Use the Programme Number Up "▲" button to sequentially check each station.
If necessary, repeat steps 3 to 4 for each Programme Number.

6

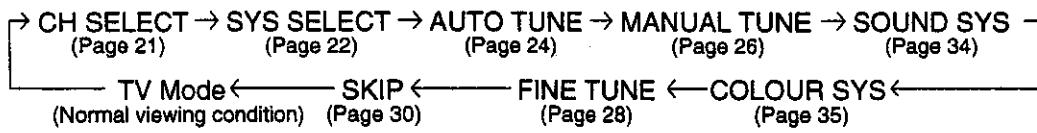


After all stations are tuned, push the "PRE." (RESET) button 4 times.

This returns the set to the normal viewing condition. Programme Number memory locations.

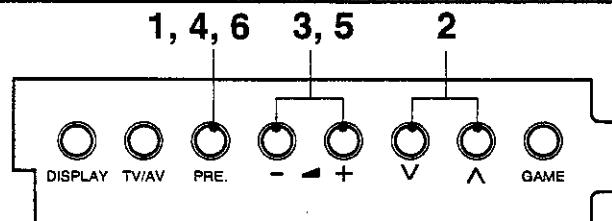
Helpful Hint

- (1) To tune, push the Main Menu button and Position button on the Remote Control.
By following the display in the Preset Menu, setting can be formed using only the Remote Control.
- (2) If a clear picture with correct colours cannot be obtained when a Broadcast or AV signal is received, refer to the "Colour System Selection" operation on page 35.
- (3) After the Automatic tune is finished, push the Programme Number "▲" button to confirm the tuning condition for each Programme Number. If some Programme Numbers are unused, it is possible to skip such Programme Numbers. Please refer to the Programme Number Skip operation on page 30.
- (4) Repeated pushing of the "PRE." (RESET) button changes the Preset Menu as follows;



Tuning Procedure

Manual Tune (Channel Select and Regional System must already be set; Refer to pages 20 to 23)



(TV set)

1 Push the "PRE." (PRESET) button 4 times.

```

1   PRESET
CH 1
CH SELECT POS.
SYS SELECT ASIA/M. E.
AUTO TUNE
MANUAL TUNE
SOUND SYS 5. 5MHz
COLOUR SYS AUTO
FINE TUNE
SKIP      OFF

```

Manual Search "MANUAL TUNE" Condition.

2 Push either the Programme Number Up "^" or Down "V" button.

```

2   PRESET
CH 1
CH SELECT POS.
SYS SELECT ASIA/M. E.
AUTO TUNE
MANUAL TUNE
SOUND SYS 5. 5MHz
COLOUR SYS AUTO
FINE TUNE
SKIP      OFF

```

Select the desired Programme Number.

3 Push the Volume Up "+" or Down "-" button.

Volume "+" : Next higher Channel

Volume "-" : Next lower Channel

```

MANUAL TUNE

```

Search Start.

The best tuning position is automatically memorized.

```

2   PRESET
CH 2
CH SELECT POS.
SYS SELECT ASIA/M. E.
AUTO TUNE
MANUAL TUNE
SOUND SYS 5. 5MHz
COLOUR SYS AUTO
FINE TUNE
SKIP      OFF

```

4 Push the "PRE." (PRESET) button.

PRE.

"SOUND SYS" Condition.

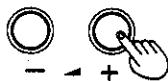
```

2   PRESET
CH 2
CH SELECT POS.
SYS SELECT ASIA/M. E.
AUTO TUNE
MANUAL TUNE
SOUND SYS 5. 5MHz
COLOUR SYS AUTO
FINE TUNE
SKIP      OFF

```

Tuning Procedure

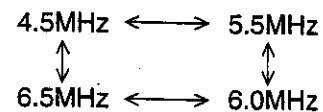
5



If the sound is not clear or no sound is produced on a Programme Number Position, push the Volume Up "+" or Down "-" button.

| PRESET | |
|-----------------------|----------------|
| CH 2 | CH SELECT POS. |
| SYS SELECT ASIA/M. E. | |
| AUTO TUNE | |
| MANUAL TUNE | |
| SOUND SYS 5. 5MHz | |
| COLOUR SYS AUTO | |
| FINE TUNE | |
| SKIP | OFF |

You may improve the Sound quality.
The sound indicator will change as follows.



6



Push the "PRE." (PRESET) button 4 times.

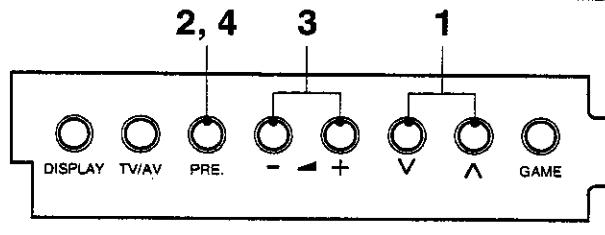
This returns the set to the normal viewing condition.

Helpful Hint

- (1) If a clear picture cannot be obtained even when a Broadcast or AV signal is received, refer to the "Colour System Selection" operation on page 35.
- (2) After the Manual tune is finished, push the Programme Number "A" button to confirm the tuning condition for each Programme Numbers. If some Programme Numbers are unused, it is possible to skip such Programme Numbers. Please refer to the Programme Number skip operation on page 30.
- (3) When using a VCR without video and audio input/output terminals, it is convenient to connect the aerial cable as indicated in the instruction manual of VCR and to set the designated channel to programme No. "0". In that case, perform manual tune after setting the colour system and sound system in advance. Further, in multi-system VCR, it is more convenient to set the designated channel to several programme Numbers.

Tuning Procedure

Fine Tuning



Under normal reception conditions this function is not required or necessary. However, in areas of poor reception or constant interference, a slight adjustment of the tuning may improve the picture and sound quality.

- 1 Select the channel which you want to improve, using the Programme Number Up "↑" or Down "↓" button.

2 Select the desired Programme Number.
- 2 Push the "PRE." (PRESET) button 7 times, setting the Preset menu to "FINE TUNE".

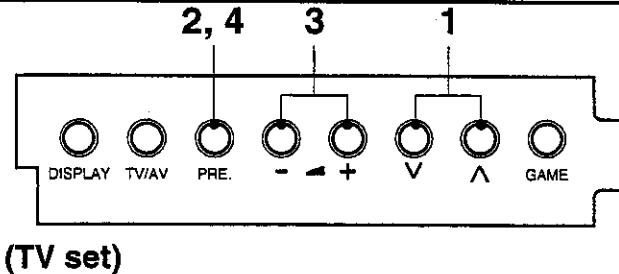
Fine Tune Condition.
- 3 Push and hold the Volume Up "+" or Down "-" button until the clear picture is received.

Fine Tune Start.
The AFC function is deactivated.
The "•" symbol appears to the left of the Programme Number.
- 4 Push the "PRE." (PRESET) button twice.

This returns the set to the normal viewing condition.

Tuning Procedure

How to Cancel the Fine Tuning



Cancelling previously adjusted (manually) fine tuning, means re-activating the AFC (Automatic Frequency Control) Function, also known as AFT (Automatic Fine Tuning). Re-activating the Automatic Fine Tuning means allowing the set to automatically tune to the optimum tuning position, for that programme Number.



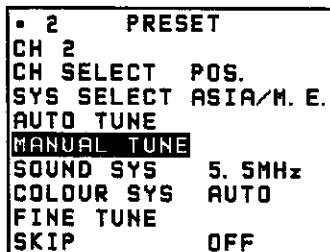
1 Select the "AFC OFF" Programme Number which you want to return to Automatic Frequency Control (cancel the manual fine tuning).



"AFC OFF" Programme Numbers are indicated to you by the "■" symbol to the left of the Programme Numbers in the On-Screen Display.



2 Push the "PRE." (PRESET) button 4 times, setting the Preset menu to "MANUAL TUNE".



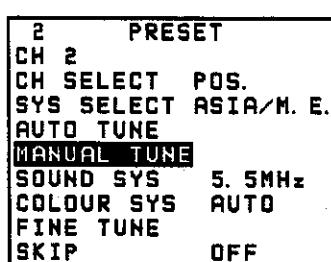
Manual Search Condition.



3 Push the Volume Up "+" or Down "-" button, briefly.



The best tuning position is automatically memorized. (In other words, manually tune away from the transmission, and then back to it.)

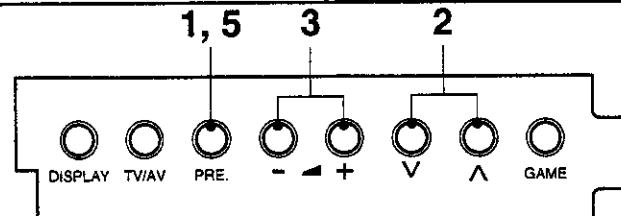


4 Push the "PRE." (PRESET) button 5 times.

This returns the set to the normal viewing condition.

Tuning Procedure

Programme Number Skip



(TV set)

It is possible to skip Programme Number on which no TV stations are tuned appearing on the screen.
The function is only effective when selecting Programme Numbers by pushing the Programme Number up or Down button either on the TV set or the Remote control.

1

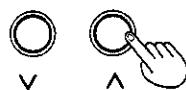


Push the "PRE." (PRESET) button 8 times, setting the Preset menu to "SKIP".

1 PRESET
CH 1
CH SELECT POS.
SYS SELECT ASIA/M. E.
AUTO TUNE
MANUAL TUNE
SOUND SYS 5. 5MHz
COLOUR SYS AUTO
FINE TUNE
SKIP OFF

Channel Skip mode.

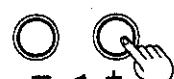
2



Select a Programme Number you want to skip by pushing the Programme Number up "A" or down "V" button.

2 PRESET
CH 2
CH SELECT POS.
SYS SELECT ASIA/M. E.
AUTO TUNE
MANUAL TUNE
SOUND SYS 5. 5MHz
COLOUR SYS AUTO
FINE TUNE
SKIP OFF

3

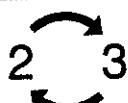


Push the Volume up "+" or down "-" button.

2 PRESET
CH 2
CH SELECT POS.
SYS SELECT ASIA/M. E.
AUTO TUNE
MANUAL TUNE
SOUND SYS 5. 5MHz
COLOUR SYS AUTO
FINE TUNE
SKIP ON

The displayed "OFF" mode changes to "ON".

4



Repeat Steps 2 and 3 for the remaining Programme Numbers for which the Skip function is desired.

5

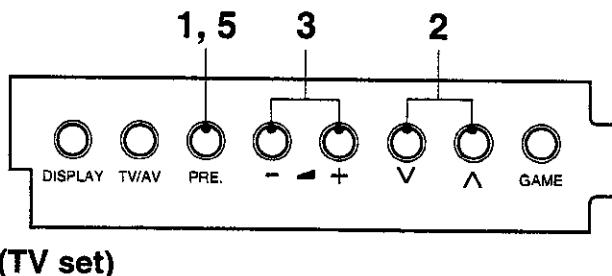


After the Skip Operation is completed, push the "PRE." (PRESET) button (once).

This returns the set to the normal viewing mode.

Tuning Procedure

How to Cancel the Skip Function



(TV set)

- 1 Push the "PRE." (PRESET) button 8 times, setting the Preset Menu to "SKIP".

2 Channel Skip Condition

| | |
|-----------------------|--------|
| 2 | PRESET |
| CH12 | |
| CH SELECT POS. | |
| SYS SELECT ASIA/M. E. | |
| AUTO TUNE | |
| MANUAL TUNE | |
| SOUND SYS 5. 5MHz | |
| COLOUR SYS AUTO | |
| FINE TUNE | |
| SKIP | ON |
- 2 Select a skipped Programme Number, by pushing the Programme Number Up "^" or Down "v" button.

2 Channel Skip Condition

| | |
|-----------------------|--------|
| 2 | PRESET |
| CH12 | |
| CH SELECT POS. | |
| SYS SELECT ASIA/M. E. | |
| AUTO TUNE | |
| MANUAL TUNE | |
| SOUND SYS 5. 5MHz | |
| COLOUR SYS AUTO | |
| FINE TUNE | |
| SKIP | ON |
- 3 Push the Volume Up "+" or Down "-" button.

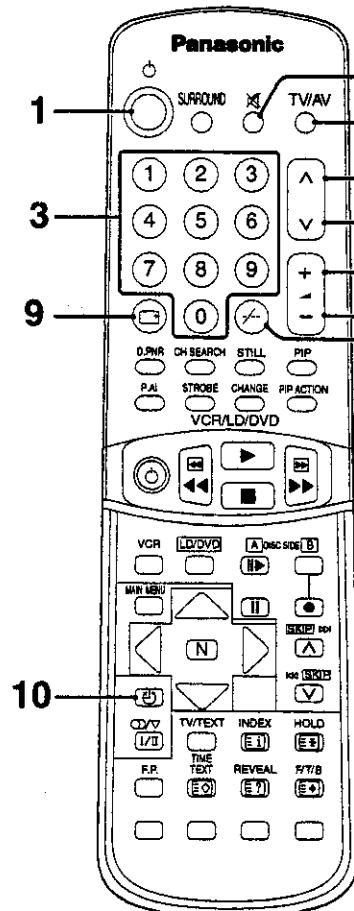
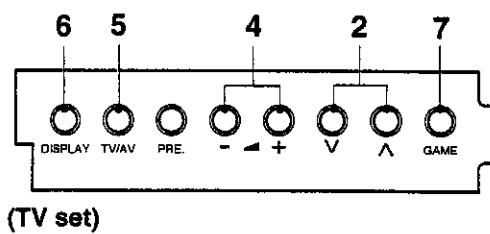
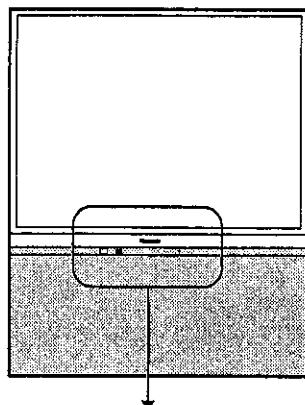
2 Channel Skip Condition

| | |
|-----------------------|--------|
| 2 | PRESET |
| CH12 | |
| CH SELECT POS. | |
| SYS SELECT ASIA/M. E. | |
| AUTO TUNE | |
| MANUAL TUNE | |
| SOUND SYS 5. 5MHz | |
| COLOUR SYS AUTO | |
| FINE TUNE | |
| SKIP | OFF |

The displayed "ON" condition changes to "OFF".
- 4 Repeat Steps 2 and 3, if you wish to cancel the skip function on any other Programme Number.
- 5 After the Skip Cancel Operation is completed, push the "PRE." (PRESET) button (once).

This returns the set to the normal viewing condition.

General Operation



1



How to switch the power ON or OFF / STANDBY mode.

The TV set must first be switched on at the wall outlet and at the Power Switch. (Refer to page 9)

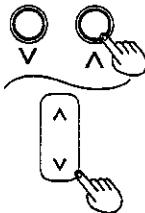
Push this button to turn the TV set ON, from STANDBY mode.

Push it again to turn the TV set OFF, STANDBY mode.

Note:

It is also possible to turn the TV set on STANDBY by pushing the "Direct Programme Number Selection" buttons (0-9) and the "Programme Number Up or Down" button, either on the set or on the Remote Control.

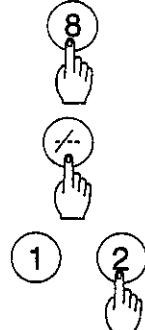
2



Programme Number Selection

Push the Programme Number Up " ^ " or Down " v " button to select the next higher or lower Programme number.

3



Direct Programme Number Selection (CH SELECT = POS.)

You can select the numbers directly by pushing "Number 0-9" button and the two digit Numbers by pushing "Two Digit" and "Programme Number" buttons.

Programme Number 8 8

Programme Number 12..... 1 , 2

Direct Programme Number Selection (CH SELECT = DIRECT)

You can select the number directly by pushing the corresponding programme number button.

Programme Number 8..... 8 / 0 , 8

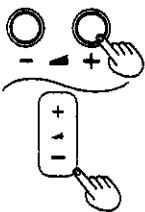
Programme Number 36..... 3 , 6

Programme Number 124... 1 , 2 , 4

Note:

When the Skip setting for Programme Number 100 through 125 is on, the channel selection time will be shortened, and thus you can not input three digits at a time.

4

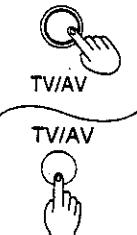
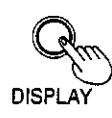
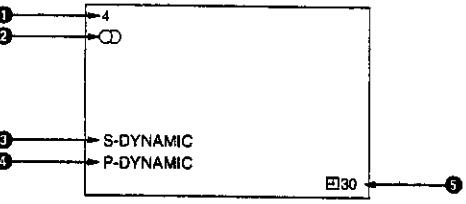
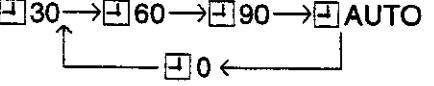


Volume adjustment

Push the Volume Up "+" or Down "-" button to increase or decrease the sound volume level.

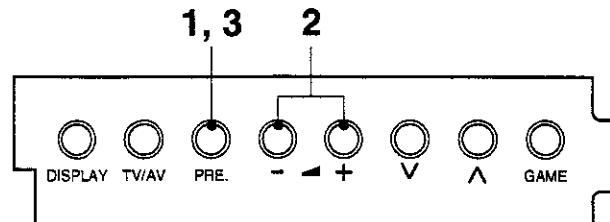


General Operation

| | |
|---|--|
| <p>5</p>  <p>TV/AV mode Selection Push the "TV/AV" button to select TV, AV1, AV2, AV3, AV4 input signal modes sequentially.</p> | <p>9</p>  <p>Recall button Push the "Recall" button to display the current system status. Push again to cancel.</p> |
| <p>6</p>  <p>Display button When the Display button is pressed, the Panasonic Logo is displayed. Push the Display button a second time to the normal viewing condition.</p> <p>Note:</p> <ul style="list-style-type: none"> (1) When this button is pushed, Picture and Sound menus change to Picture (DYNAMIC) and Sound (DYNAMIC). (2) When this button is pushed during Game mode, Picture and Sound menus change to Picture (GAME) and Sound (DYNAMIC). |  <p>① Programme Number (Refer to page 20) ② Audio Mode (Refer to page 41) ③ Sound Menu (Refer to page 43) ④ Picture Menu (Refer to page 42) ⑤ Off Timer (Refer to page 33)</p> |
| <p>7</p>  <p>Game button Push this button to change to the AV2 input signal and enter Game mode. The picture and sound changes to a suitable mode for video games.</p> <p>Note: When you push this button during stand-by mode, the TV will turn on automatically and Picture and Sound changes to a suitable mode for video games.</p> | <p>10</p>  <p>Off Timer button The TV set may be preset to switch to stand-by after a fixed period. By pushing "Off-Timer" button, you can select the preset time; either "30", "60", "90" minutes or AUTO mode.</p>  <p>Setting Off-Timer to AUTO mode. If the set is not switched off when the TV station stops broadcasting, it will automatically go to Stand-by mode after 5 minutes.</p> |
| <p>8</p>  <p>Sound Mute button Push this button to mute the sound completely. The "Mute" symbol will appear. (Colour change to red)</p> <p>Push the button once again to restore the previous sound level, and cancel the mute.</p> | <p>Note: Off-Timer setting will not operate in AUTO mode when the Television set is in AV mode.</p> |

General Operation

Sound System Selection (Different region use differing systems)



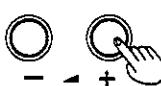
(TV set)

This function is used only in the TV mode, and is not applicable in AV mode when the sound is not clear or no sound is produced on a Programme Number.

1  Push the "PRE." (PRESET) button 5 times.

2 **PRESET**
CH 2
CH SELECT POS.
SYS SELECT ASIA/M. E
AUTO TUNE
MANUAL TUNE
SOUND SYS 5.5MHz
COLOUR SYS AUTO
FINE TUNE
SKIP OFF

Sound System Condition.

2  Push the Volume Up "+" or Down "-" button repeatedly until the optimum sound is obtained.

2 **PRESET**
CH 2
CH SELECT POS.
SYS SELECT ASIA/M. E
AUTO TUNE
MANUAL TUNE
SOUND SYS 5.5MHz
COLOUR SYS AUTO
FINE TUNE
SKIP OFF

The sound system will change as shown.

4.5MHz \longleftrightarrow 5.5MHz
↓ ↑
6.5MHz \longleftrightarrow 6.0MHz

Note:
These are different sound broadcast transmission systems applicable to differing countries.

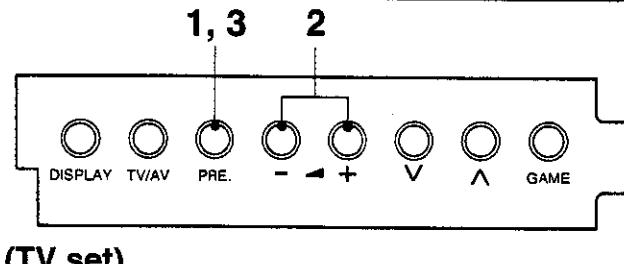
3  Push the "PRE." (PRESET) button 4 times.

This returns the set to the normal viewing condition.

The selected Sound System is automatically memorised.

General Operation

Colour System Selection (Different region use differing systems)



(TV set)

If a clear picture with current colours cannot be obtained when a Broadcast or AV signal is received.

1

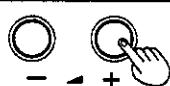


Push the "PRE." (PRESET) button 6 times. (In AV mode it is only necessary to push the "PRE." (PRESET) button once.)

12 PRESET
CH12
CH SELECT POS.
SYS SELECT ASIA/M. E.
AUTO TUNE
MANUAL TUNE
SOUND SYS 5.5MHz
COLOUR SYS AUTO
FINE TUNE
SKIP OFF

Colour System Condition.

2



Push the Volume Up "+" or Down "-" button repeatedly until the optimum image is produced.

12 PRESET
CH12
CH SELECT POS.
SYS SELECT ASIA/M. E.
AUTO TUNE
MANUAL TUNE
SOUND SYS 5.5MHz
COLOUR SYS AUTO
FINE TUNE
SKIP OFF

The colour system will change as shown.

AUTO \longleftrightarrow PAL \longleftrightarrow SECAM
 \downarrow
NTSC3.58 \longleftrightarrow NTSC4.43
 \uparrow

Note:

PAL, SECAM and NTSC 3.58 are different colour signal broadcast transmission systems applicable to differing countries NTSC 4.43 is a trick playback mode used in special VCR's to playback NTSC recorded video tapes through PAL television equipment.

3



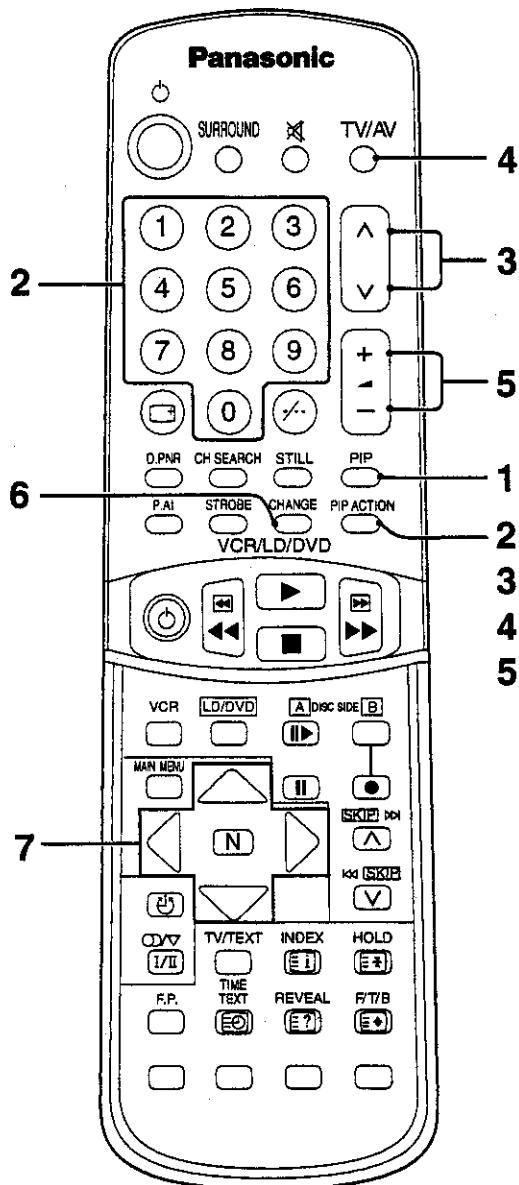
Push the "PRE." (PRESET) button 3 times.
(In the AV mode, push the "PRE." (PRESET) button once.)

This returns the set to the normal viewing condition.

The selected Colour System is automatically memorised.

Advanced Remote Control Operation

PICTURE IN PICTURE Operation



1

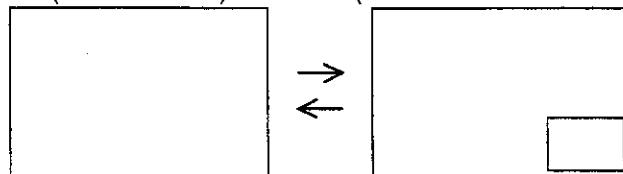


The TV broadcast signals and the external signals can be viewed simultaneously. By pushing the PIP button to view the following PIP conditions.

PIP condition is as shown below

(Normal mode)

(Picture in Picture mode)



Main Picture input mode

Main Picture

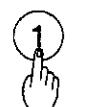
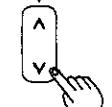
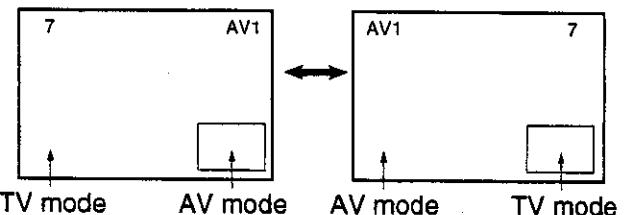
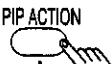
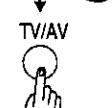
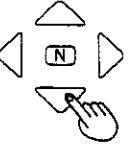
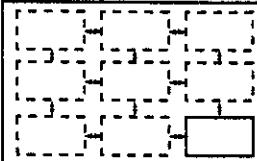
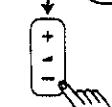
— Sub Picture
input mode

—Sub Picture

Note:

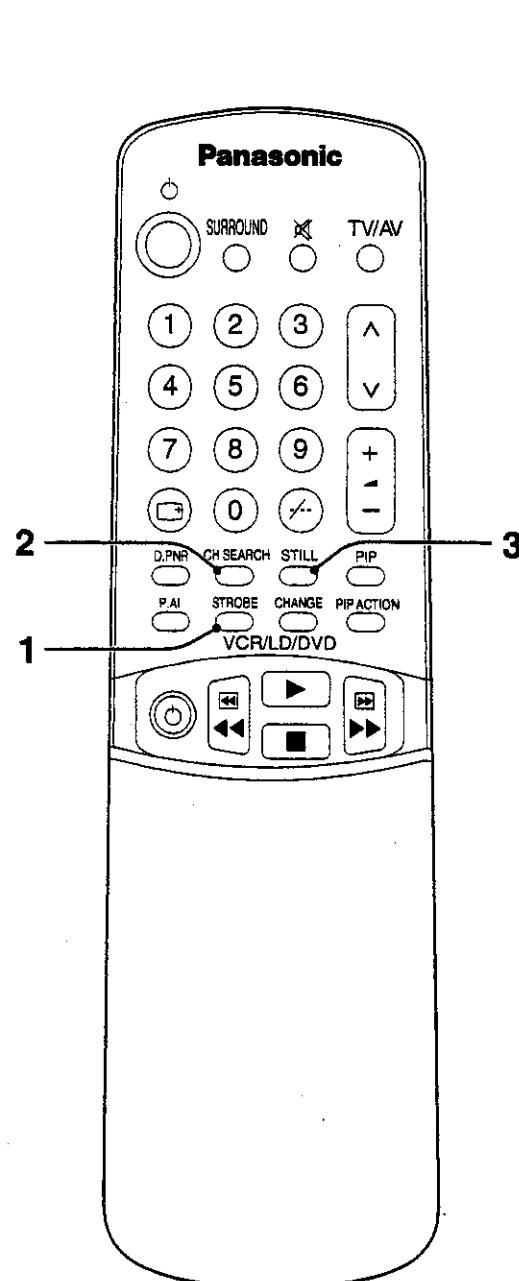
- (1) The DVD (Y, Pb, Pr) signal does not display a Sub-Picture.
- (2) When the set is in PIP mode, the left and right picture are processed by two different circuits. Therefore there may be a minor difference in clarity between the Pictures.

Advanced Remote Control Operation

| | |
|--|--|
| 2   Sub picture Direct Programme (Channel) Number Selection Push the "PIP ACTION" button and Direct programme Number Selection button to select the programme number during the Sub Picture input mode indication is blinking. | 6  CHANGE Push the "CHANGE" button to swap from Main picture to sub picture and vice versa. |
| 3   Sub picture Programme Number Selection Push the "PIP ACTION" button and Programme Number Up "▲" or Down "▼" button to select the next higher or lower programme number. |  <p>The diagram illustrates the transition between TV mode and AV mode. On the left, under 'TV mode', there is a small square with the number '7' at the top and a double-headed arrow pointing down below it. To its right, under 'AV mode', is a larger rectangle labeled 'AV1' at the top. On the right, under 'AV mode', there is a small square with the number '7' at the bottom and a double-headed arrow pointing up below it. To its right, under 'TV mode', is a larger rectangle labeled 'AV1' at the bottom. A double-headed horizontal arrow is positioned between the two main rectangles, indicating the swap function.</p> |
| 4    Sub picture TV/AV mode Selection Push the "PIP ACTION" button, and TV/AV button to select TV, AV1, AV2, AV3, AV4 input signal mode sequentially. | 7  Position buttons (Only for PIP mode) By pushing each "Position" button, you can select the 9 positions of the Sub Picture on the screen.  <p>The diagram shows a 3x3 grid of dashed boxes representing the 9 positions for the subpicture on a screen. The bottom-right position is highlighted with a solid black rectangle.</p> |
| 5   Sub Headphones Volume adjustment Push the "PIP ACTION" button, and volume Up "+" or Down "-" button to increase or decrease the sub Headphones volume level. Note: The volume for the main picture on sub-picture can be adjusted separately. | Note: By pushing the Normal "N" button while the picture in picture mode is activated, the Sub Picture position will move to the bottom Right corner. |

Advanced Remote Control Operation

STROBE , CH SEARCH and STILL Operation



1



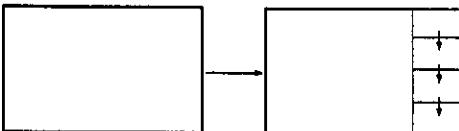
STROBE

Push the "STROBE" button to display the sub-picture with a strobe effect.

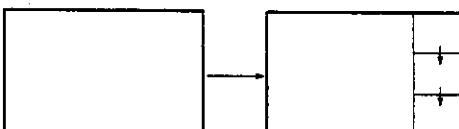
When the "STROBE" is on, push the "STROBE" button again to turn off the strobe, or push the "STILL" button to freeze the strobe image.

Push the "STILL" button again to restart the strobe effect.

PIP Size is Small



PIP Size is Large



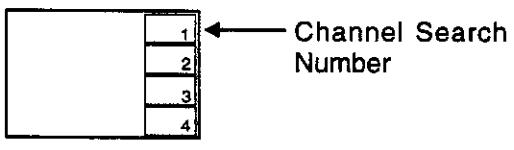
2



CH (Channel) SEARCH

By pushing this button, it is possible to search through all tuned programme numbers.

Push the desired programme number.



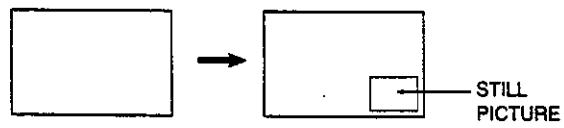
3



STILL mode

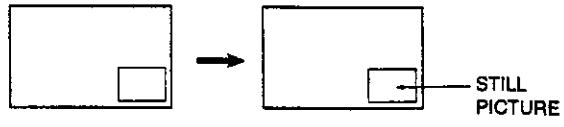
PIP mode is OFF:

Push the Still button and the Main picture as a still frame.



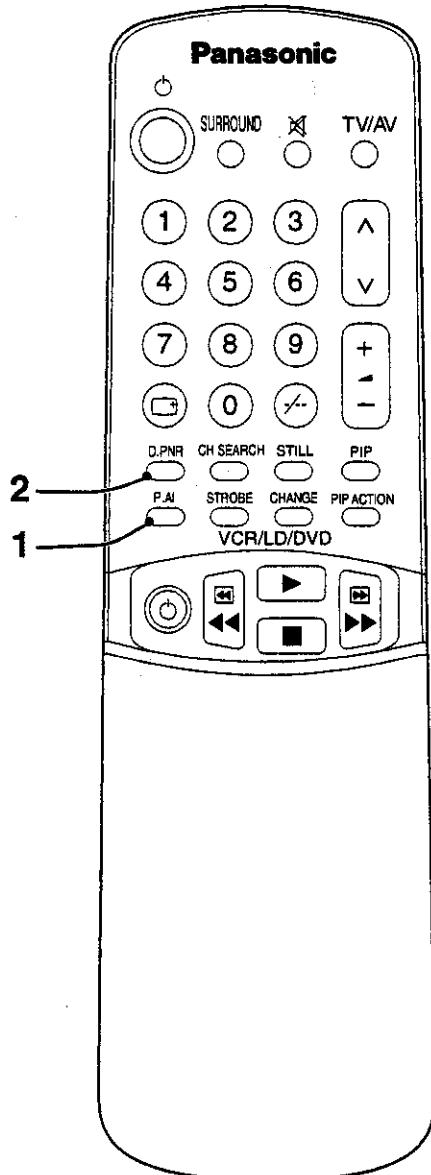
PIP mode is ON:

Push the Still button to display the Sub picture as a still frame.



Advanced Remote Control Operation

P.AI and D.PNR Operation



1

P.AI



P-AI (Picture-Artificial Intelligence)

The P-AI continuously detects fine difference in the picture signal, with great precision, and including the picture brightness, black level and contrast. This function automatically adjusts the picture to the best quality for the scene, and reproduces images that provide a sense of depth.

2

2

D.PNR



D.PNR

This Picture Noise Reduction System is designed to reduce picture noise during poor quality reception conditions.

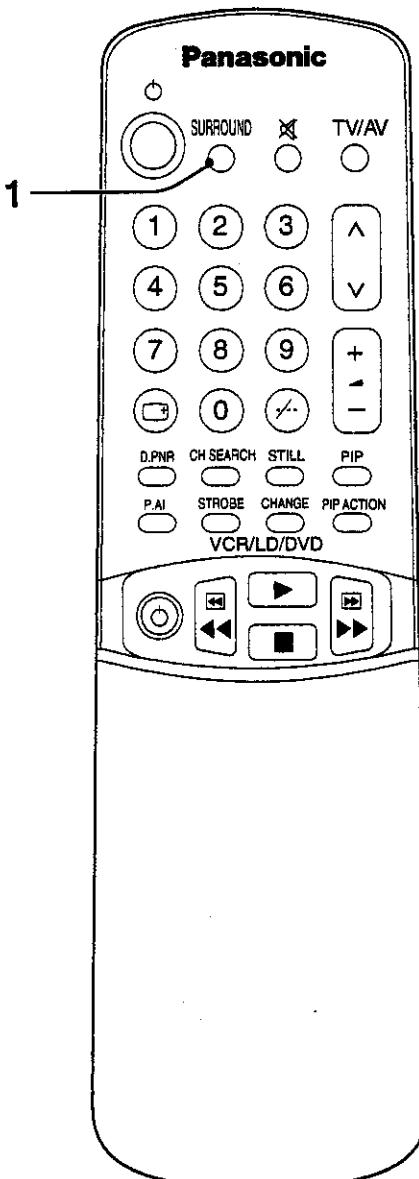
The D.PNR mode will change as shown.

→ OFF → STRONG → WEAK

AUTO ←

Advanced Remote Control Operation

Surround Operation



1 SURROUND



Surround button

The benefits of surround sound are enormous. You can be completely enveloped in sound; just as if you were at a concert hall or cinema.

The surround effect can be obtained without the use of external surround speakers.

On screen display during surround mode.

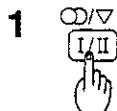
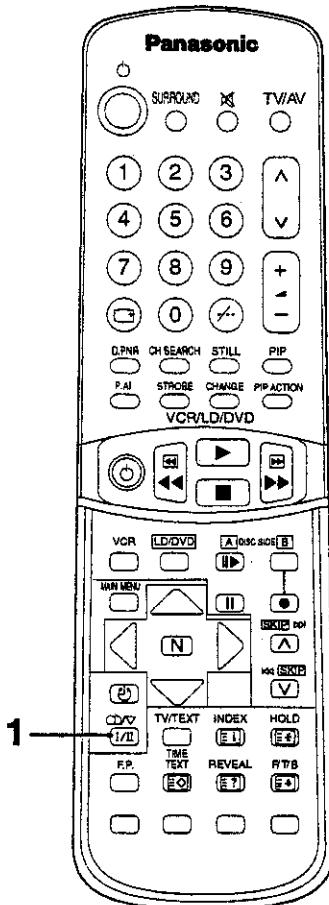
| | Type of broadcast | On-screen display |
|---------|---|--|
| TV mode | <ul style="list-style-type: none">• MONO (including STEREO switched to MONO by you) and BILINGUAL | MONO SURROUND ↓ SURROUND OFF |
| TV mode | <ul style="list-style-type: none">• STEREO | STEREO SURROUND ↓ SURROUND OFF |
| AV mode | <ul style="list-style-type: none">Select the AV mode (AV1, AV2, AV3 and AV4) | STEREO SURROUND ↓ MONO SURROUND ↓ SURROUND OFF |

Note:

If the stereo signal is poor or the receiving conditions are not optimum or if STEREO: MONO automatic switching occurs, it is recommended that "STEREO" switch to MONO (Refer to page 41) be used. If problems or unusual sudden effects are encountered in any of the surround modes, it is recommended that "SURROUND OFF" be selected.

Advanced Remote Control Operation

Stereo Reception



When you receive the stereo/bilingual sound system, sound output modes can be selected by pushing the stereo/bilingual sound selection button.

| Audio Signal | Mode Indicator |
|--------------|----------------|
| STEREO | ○○ |
| MAIN I | I |
| SUB II | II |
| MONO | ▽ |

| Type of broadcast | Mode Indicator |
|---------------------------------------|--|
| Regular broadcast (Standard Audio) | No Indicator |
| NICAM | Regular + NICAM MONO I (MAIN I) |
| | NICAM STEREO |
| | NICAM DUAL MONO (MAIN I / SUB II) |
| Regular broadcast (Standard Audio) | No Indicator |
| A2 (German) | BILINGUAL or DUAL MONO : MAIN I / SUB II |
| | STEREO |

Note:

(1) The "A2 (German)" stereo/bilingual TV sound transmission system is used in the following countries; Australia, Malaysia, Thailand, Indonesia, etc.

The "NICAM" stereo TV sound transmission system is used in the following countries; New Zealand, Singapore, Hong Kong and China.

(2) If the stereo signal is poor or the receiving conditions are not optimum or if STEREO: MONO automatic switching occurs, it is recommended you switch from STEREO to MONO.

When the broadcasting mode changes to "STEREO" or "MONO" after you have selected "MONO" mode, change over to "STEREO" mode will be made automatically.

Note:

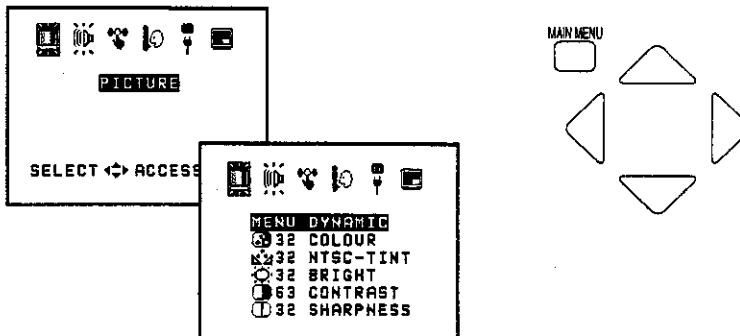
(1) Even when the contents of the receiving signal undergo changes, selection mode is kept intact.

(2) When the receiving conditions deteriorate, listening will be easier if the mode is set to the "MONO" position, using the stereo/bilingual sound selection button.

(3) "DUAL", also known as "DUAL MONO" or as "BILINGUAL" is not currently transmitted in some countries.

Main Menu Operation

Picture Menu Operation



- Push the "Main Menu" button.
- Select the "PICTURE" menu by pushing the Position Left "<" or Right ">" button and Access the "Picture" menu by pushing the Position Up "^" or Down "v" button.
- Choose the option and adjust by pushing the Position Up "^" or Down "v" button, and by setting with the Position Left "<" or Right ">" button.

| Picture Menu | Function |
|--------------|--|
| DYNAMIC | For viewing in brighter environments. This menu selects a higher than normal level of Contrast. |
| STANDARD | For viewing in normal (evening lighting) environments. This menu selects the normal levels of Brightness and Contrast. |
| SOFT | For viewing in a dark room. This menu selects reduced levels of Brightness and Contrast. |
| GAME | For playing TV GAME. * |

- You can change the level of each Function (COLOUR, NTSC-TINT, BRIGHT, CONTRAST, SHARPNESS) for each Picture Menu.
- Picture Menu mode will be memorized for each TV, AV1, AV2, AV3 and AV4 mode.

Note

* Do not allow a still picture to be displayed for an extended period, as this can cause a permanent after-image to remain on the Projection TV screen.
Examples of still pictures include logos, video games, computer images, teletext and images displayed in 16 : 9 mode.

| Item | Effect | Indicator |
|-----------|-------------------------|-----------|
| COLOUR | < Less > More | |
| NTSC-TINT | < Reddish > Greenish | |
| BRIGHT | < Darker > Brighter | |
| CONTRAST | < Less > More | |
| SHARPNESS | < Less > More | |

Note:

- When the to Multi PIP mode and Picture-in-Picture mode, the main and sub pictures are both adjusted simultaneously.
- Even if the TV is not set to "NTSC" mode, "NTSC-TINT" will be displayed and level adjustment would be possible. But it would not function.
- When the TEXT mode, COLOUR, NTSC-TINT and SHARPNESS will not displayed.

Helpful Hint (Normalization)

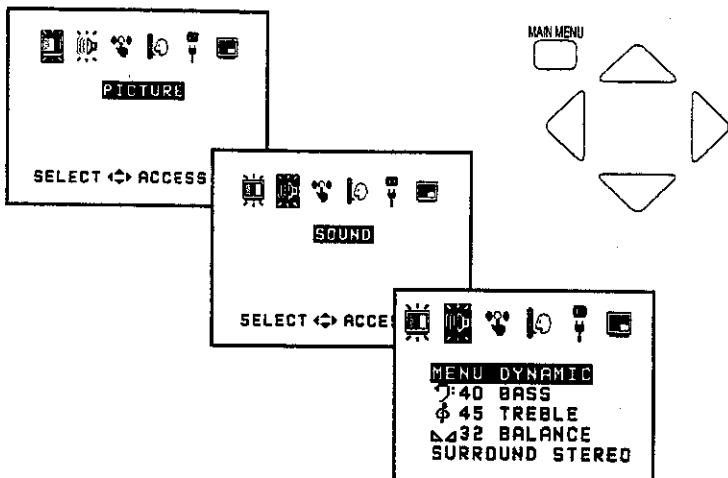
By pushing the Normal "N" button on the Remote Control while the Picture Menu is displayed, the selected Menu will be changed to the Normal mode.

Normalization will not occur if the Menu is not displayed when the "N" button is pushed.

The Normal mode is the factory preset condition. Returning to this original condition is called "Normalization".

Main Menu Operation

Sound Menu Operation



1. Push the "Main Menu" button.
2. Select the "Sound" menu by pushing the Position Left "<" or Right ">" button and Access the "Sound" menu by pushing the Position Up "^" or Down "v" button.
3. Choose the option and adjust by pushing the Position Up "^" or Down "v" button, and by setting with the Position Left "<" or Right ">" button.

| Sound Menu | Function |
|------------|--|
| DYNAMIC | Amplifies the Low and High frequencies and outputs optimum sound. For music programmes for example. |
| STANDARD | For Normal use. |
| AUTO | Sound and Music signals are altered and the best sound is automatically adjusted: sound (e. g. News and Human voice, etc.) is adjusted so as to be easy to hear and music is adjusted to give background impression. |

1. You can change the level of each Function (BASS, TREBLE) for each Sound Menu.
2. Sound Menu mode will be memorized for each TV, AV1, AV2, AV3 and AV4 mode.

| Item | Effect | Indicator |
|---------|--------------------|---------------|
| BASS | < More | 0: 32 BASS |
| TREBLE | < More | 0: 32 TREBLE |
| BALANCE | Left SP. Right SP. | 0: 32 BALANCE |

Note:

- (1) When set to Multi PIP mode and Picture-in-Picture mode, the main sound is adjusted .
- (2) When SOUND AUTO mode is selected in Sound Menu Operation, BASS and TREBLE can not be adjusted.

Helpful Hint (N Normalization)

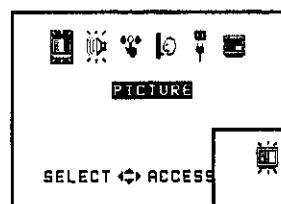
By pushing the Normal "N" button on the Remote Control while the Sound Menu is displayed, the selected Menu will be changed to the Normal mode.

Normalization will not occur if the Menu is not displayed when the "N" button is pushed.

The Normal mode is the factory preset condition. Returning to this original condition is called "Normalization".

Main Menu Operation

Features Menu Operation



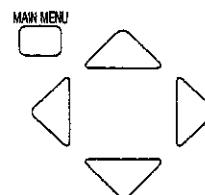
PICTURE

SELECT ↔ ACCESS



FEATURES

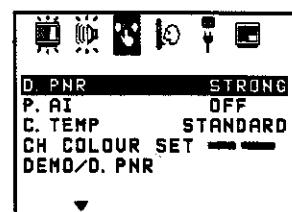
SELECT ↔ ACCESS



1. Push the "Main Menu" button.
2. Select the "FEATURES" menu by pushing the Position Left "<" or Right ">" button and Access the "Features" menu by pushing the Position Up "^" or Down "v" button.
3. Choose the option and adjust by pushing the Position Up "^" or Down "v" button, and by setting with the Position Left "<" or Right ">" button.

D.PNR (Picture Noise Reduction) mode

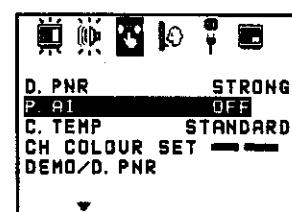
This Picture Noise Reduction System is designed to reduce picture noise during poor quality reception conditions.



P.AI mode

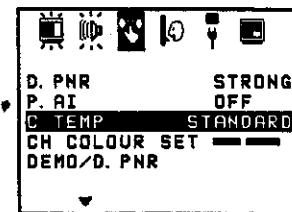
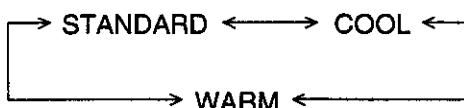
The P.AI continuously detects fine differences in the picture signal, with great precision, and including the picture brightness, black level and contrast.

This function Automatically adjusts the picture to the best quality for the scene, and reproduces images that provide a sense of depth.



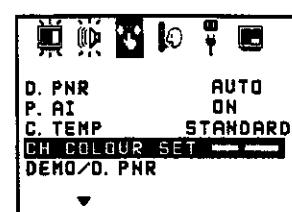
C.TEMP (Colour Temperature) mode

The C.TEMP (Colour Temperature = classifying white light) will change as follows.



CH COLOUR SET mode

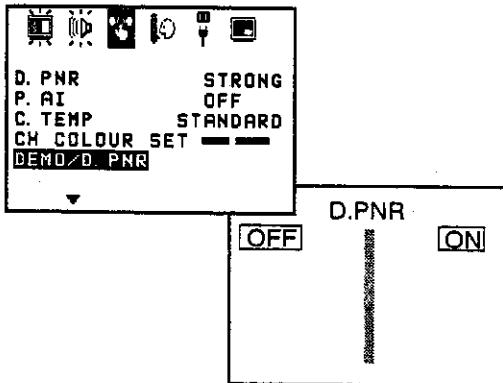
Colour density varying between broadcast channels can be adjusted to three levels for each reception channel.



Main Menu Operation

DEMO / D.PNR mode

You can check the D.PNR effect on the left and right sides of the screen.



BLUE BACK mode

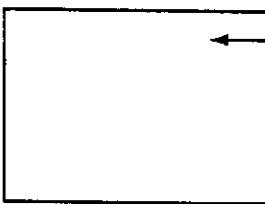
When no picture signal is received, or the signal is weak, the screen reverts to a blue background colour and the Sound is muted.

Disable this Feature to continue watching very weak signals.



Note:

If BLUE BACK mode is set on while a VCR signal is being viewed, selecting CUE or REVIEW may cause the screen to revert to the blue background colour. Disable this Feature to view correctly.



Blue if no input picture signal or input signal is weak

VCR/GAME mode

Reproduction of irregular signals, such as certain TV games and rental video tapes, may be improved.



Note

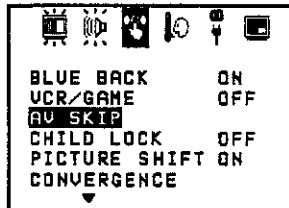
Do not allow a still picture to be displayed for an extended period, as this can cause a permanent after-image to remain on the Projection TV screen.

Examples of still pictures include logos, video games, computer images, teletext and images displayed in 16 : 9 mode.

Main Menu Operation

AV Skip mode

When the AV Skip mode is set on, this step is skipped at the time of selection with the TV/AV button.



CHILD LOCK mode

(No indication in TEXT input mode)

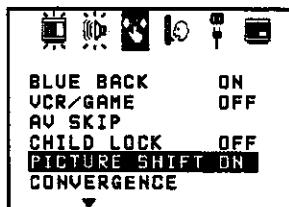
If the Child-Lock function is set ON, picture and sound of the TV/AV mode being viewed will disappear.



PICTURE SHIFT

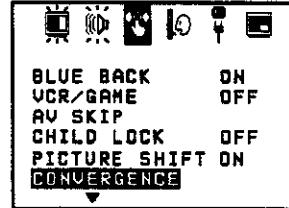
For use as a screen saver, the following displays change position (shift) every 30 minutes by several millimetres:

- Standard on-screen status indicators (all current system settings can be displayed using the Recall button).
- Input screen during Game mode.



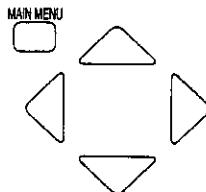
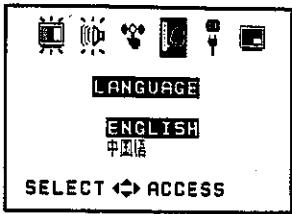
CONVERGENCE ADJUSTMENT

(See page 10)



Main Menu Operation

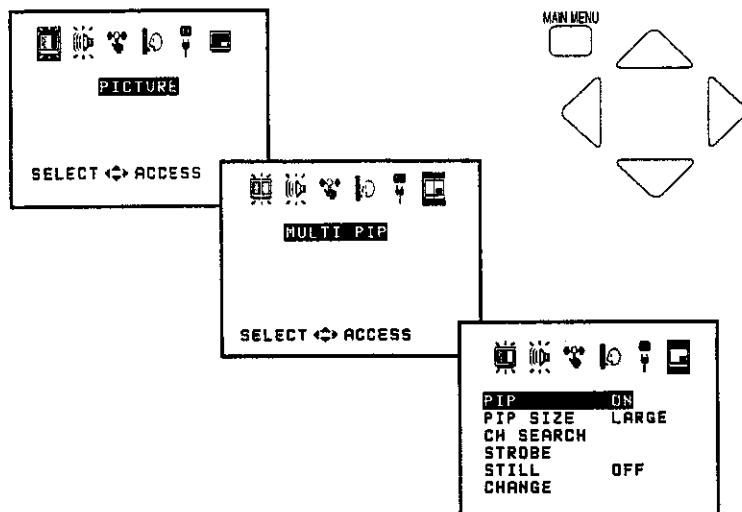
Language Menu Operation



1. Push the "Main Menu" button.
2. Select the "Language" menu by pushing the Position Left "<" or Right ">" button.
3. Push the Position Up "^" or Down "v" button. The on-screen language display will change.

Main Menu Operation

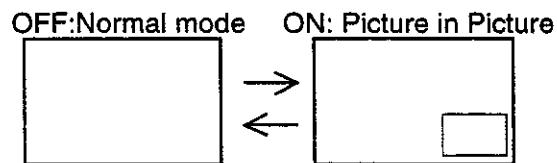
Multi PIP Menu Operation



1. Push the "Main Menu" button.
2. Select the "Multi PIP" menu by pushing the Position Left "<" or Right ">" button and Access the "Multi PIP" menu by pushing the Position Up "^" or Down "v" button.
3. Choose the option and adjust by pushing the Position Up "^" or Down "v" button, and by setting with the Position Left "<" or Right ">" button.

PIP mode

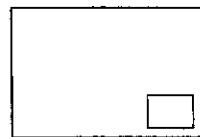
Select the PIP mode.



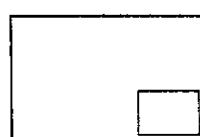
PIP SIZE mode

This feature allows the user to change the sub picture size in PIP mode.

SMALL ----- 1/16 size of the main picture
LARGE ----- 1/9 size of the main picture



When the PIP size mode is
SMALL:

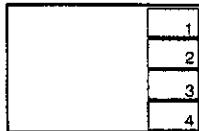


When the PIP size mode is
LARGE:

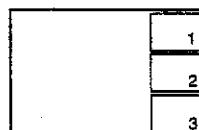
Main Menu Operation

CH (Channel) SEARCH mode

When the CH SEARCH mode is ON, it is possible to search through all tuned programme numbers, Push the desired programme numbers.



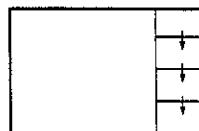
When the PIP Size Mode is Small:



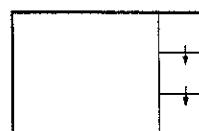
When the PIP SIZE Mode is Large:

STROBE mode

When the STROBE mode is ON, to display the sub-picture with a strobe effect.



When the PIP SIZE Mode is Small:

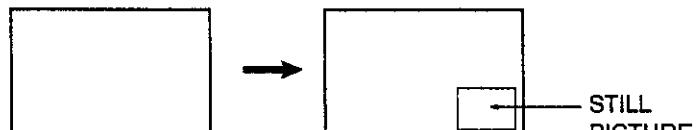


When the PIP SIZE Mode is Large:

STILL mode

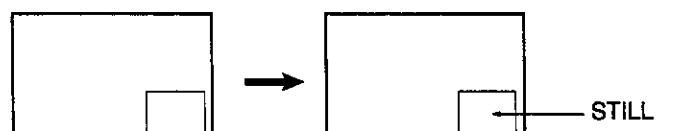
PIP mode is OFF:

STILL mode on and the Main picture as a still frame.



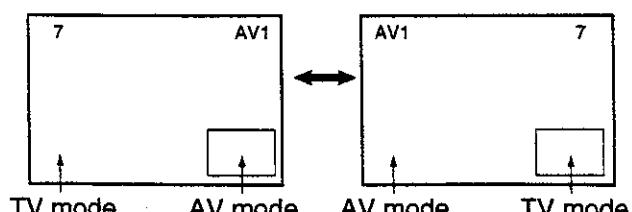
PIP mode is ON:

STILL mode on to display the sub picture as a still frame.



CHANGE mode

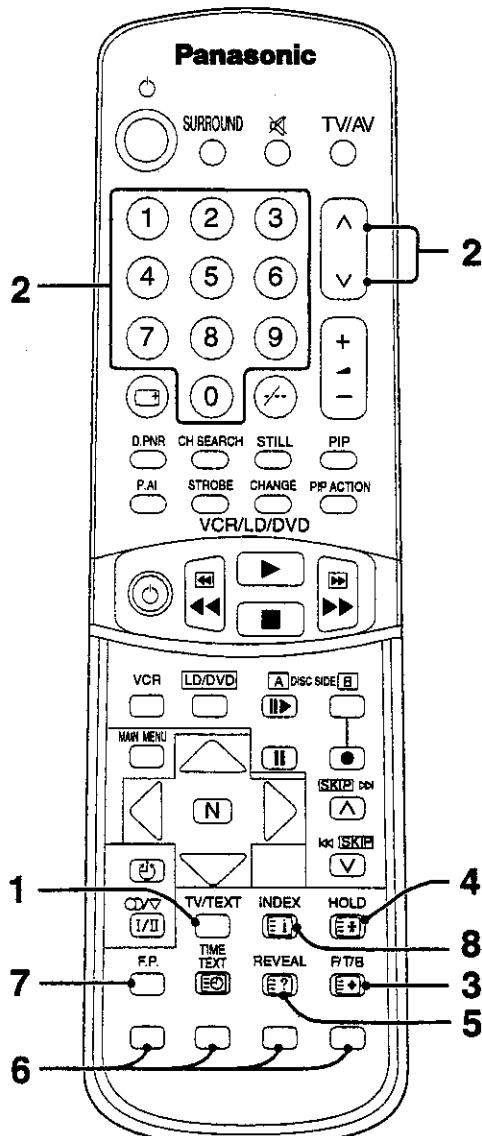
When the CHANGE mode is ON to Swap from Main picture to sub picture and vice versa.



Teletext Operation

(For TX-51P15, TX-43P15 series)

- Teletext features may vary depending on the Broadcasting Companies and is only available if the channel selected is transmitting Teletext.
- When in teletext mode, the volume may still be altered to the desired listening level.



What is LIST mode?

In LIST mode, four different coloured page numbers are situated at the bottom of the screen. Each of these numbers can be altered and stored in the TV's memory.

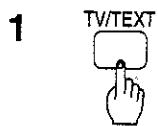
What is FASTEXT?

In FASTEXT mode, four differently coloured subjects are situated at the bottom of the display. To access more information about one of these subjects, push the appropriately coloured button. This facility enables fast access to information of the subjects shown.

What are the advantages?

- Page selection at the touch of a Colour-coded button.
- Easy to use step-by-step selection of the topics subject.
- Reduction of waiting time.
- Page status line at bottom of screen so you always know which button will take you to the desired information.

Teletext Operation

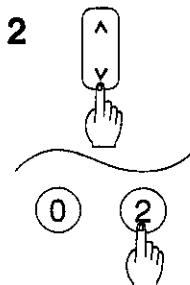


1 TV/TEXT

TV/Teletext mode

By pushing the "TV/TEXT" button, to change the TV/Teletext mode as follows.

TV ↔ Teletext

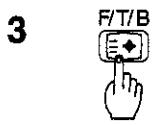


2

Page Selection

Pages can be selected in two ways:

- Push the Up/Down button to increase or decrease the page number by one.
- By entering the page number, using 0-9 on the remote control.



3

Full/Top/Bottom

Push to expand the Top half of the page.

Push again to expand the Bottom half.
Push again to return to normal (FULL) size.



4

Hold

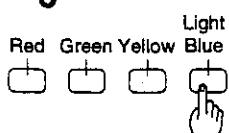
Push to hold the current page.
Push again to cancel the hold.



5

Reveal

Push to reveal hidden words e.g.quiz page answers.
Push again to hide.

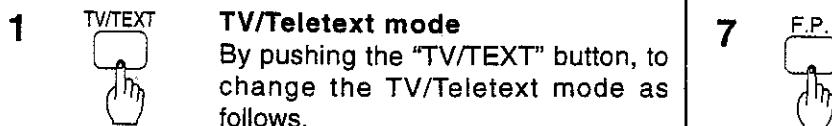


6

Colour-Coded buttons

In FASTEXT mode these correspond to the differently coloured subjects.

In LIST mode they correspond to the differently coloured page numbers.

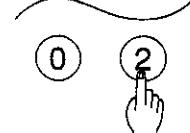


7

Favourite Page (F.P.)

Stores a favourite page in memory for instant recall. To store such a page, the TV must be in LIST mode, push the Light BLUE button, select the page number, then push List Store. The page number is now stored.

Push F.P. to recall this page.



8

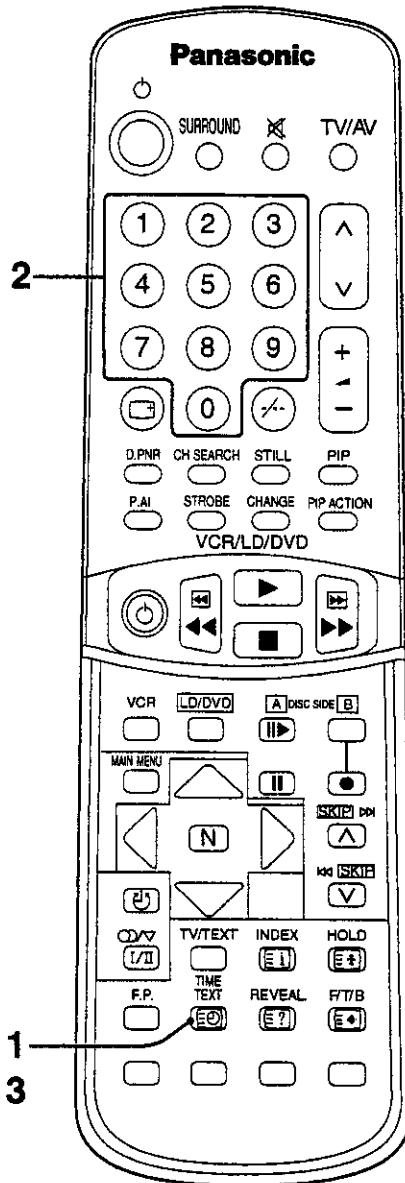
Index

Push INDEX to return to the main index page.

Teletext Operation

Sub Coded Page Access

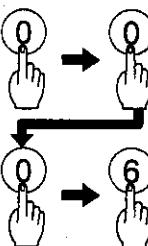
The TEXT menu will be displayed in TEXT mode. When teletext information exceeds more than one page, it may take some time for the automatic changing of the sub pages to reach the sub page you require. It is possible to enter your required sub page and continue watching the normal programme until the correct sub page is found. Select the required page number using buttons 0-9.



1 Push the TIME TEXT button.



2 Enter desired sub page number.
To select page 6 enter 0, 0, 0 and 6.

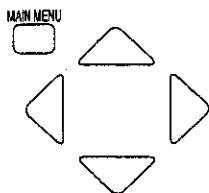
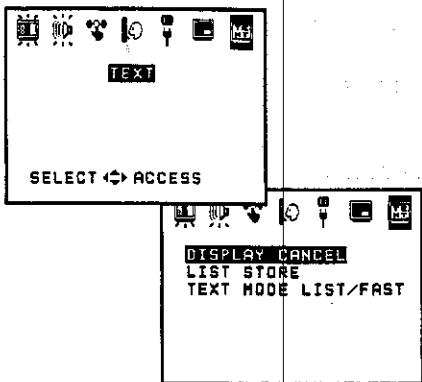


3 Push the TIME TEXT button.



Teletext Operation

TEXT Menu Operation



1. Push the "TV/TEXT" button on the Remote Control to select the TEXT mode.
2. Push the "Main Menu" button.
3. Select the "TEXT" menu by pushing the Position Left "<" or Right ">" button and Access the "TEXT" menu by pushing the Position Up "^" or Down "v" button.
4. Choose the option and adjust by pushing the Position Up "^" or Down "v" buttons, and by setting with the Position Left "<" or Right ">" buttons.

DISPLAY CANCEL

Push the Position Left "<" or Right ">" button to view the TV picture while searching for a Teletext page. When found, the screen will display the page number at the top left.

News Flash

When a news flash page has been selected, push Position Left "<" or Right ">" button to view the TV picture, when an update is received, it will be displayed on screen.

Update

Push Position Left "<" or Right ">" button to see the update of information on certain pages. When an update is received, the page number will be displayed at the top left of the screen.

LIST STORE

In LIST mode the four page numbers can be altered for channel position. To do this, push one of the colour coded buttons and enter the new page number.

Push and hold List store, the page number will change colour.

TEXT MODE

Push to change from FASTEXT mode to LIST mode and vice versa.

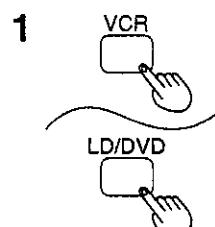
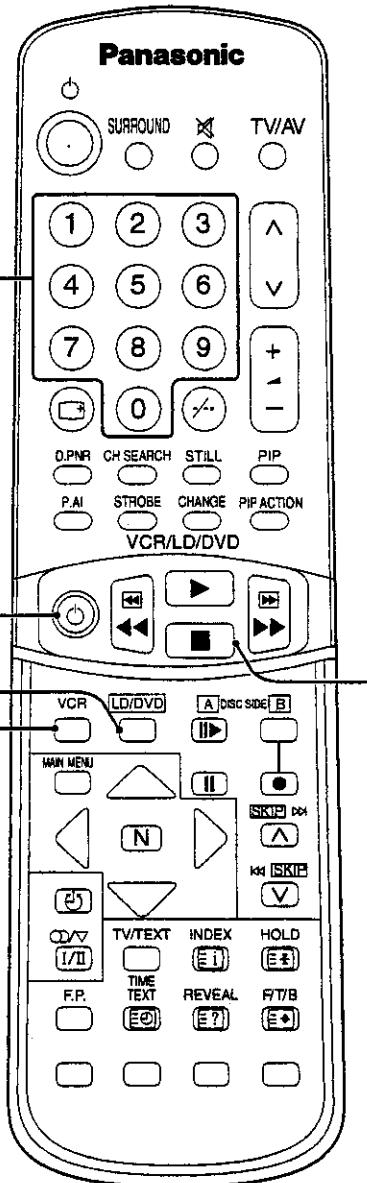
In FASTEXT mode four differently coloured subjects are displayed at the bottom of the page. Push the appropriate coloured button to access more information about one of these subjects.

Operation of the VCR / LD / DVD

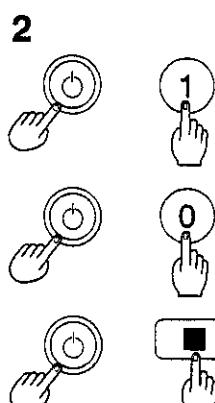
Manufacturer setting

Remote Control Operation is possible for the VCR's, LD's and DVD's of the various manufacturers.

After completion of setting, execute the various operations after pushing the VCR or the LD/DVD button.



Push the button of the unit to be set (VCR or LD / DVD).



While pushing the VCR / LD / DVD Power button, push the manufacturer code setting (enter the two digit code), and push the VCR / LD / DVD Stop button.

VCR

| Manufacturer | Code | Manufacturer | Code |
|--------------|-------------|--------------|-------------|
| Panasonic/ | 10,11,12,13 | NEC | 40,41,42,43 |
| National | | ORION | 45,46 |
| AIWA | 15,16 | PHILIPS | 50 |
| FUJITSU | 20 | SANYO | 55,56,57,58 |
| HITACHI | 25,26,27 | SHARP | 60,61 |
| JVC | 30,31,32 | SONY | 65,66,67 |
| MITSUBISHI | 35,36 | TOSHIBA | 70,71 |

LD

| Manufacturer | Code | Manufacturer | Code |
|--------------|-------------|--------------|-------------|
| Panasonic | 10,11,12,13 | SAMSUNG | 30 |
| KENWOOD | 15,16 | SHARP | 35 |
| PHILIPS | 20 | SONY | 40,41,42,43 |
| PIONEER | 25 | | |

DVD

| Manufacturer | Code |
|--------------|------|
| Panasonic | 70 |

NOTE:

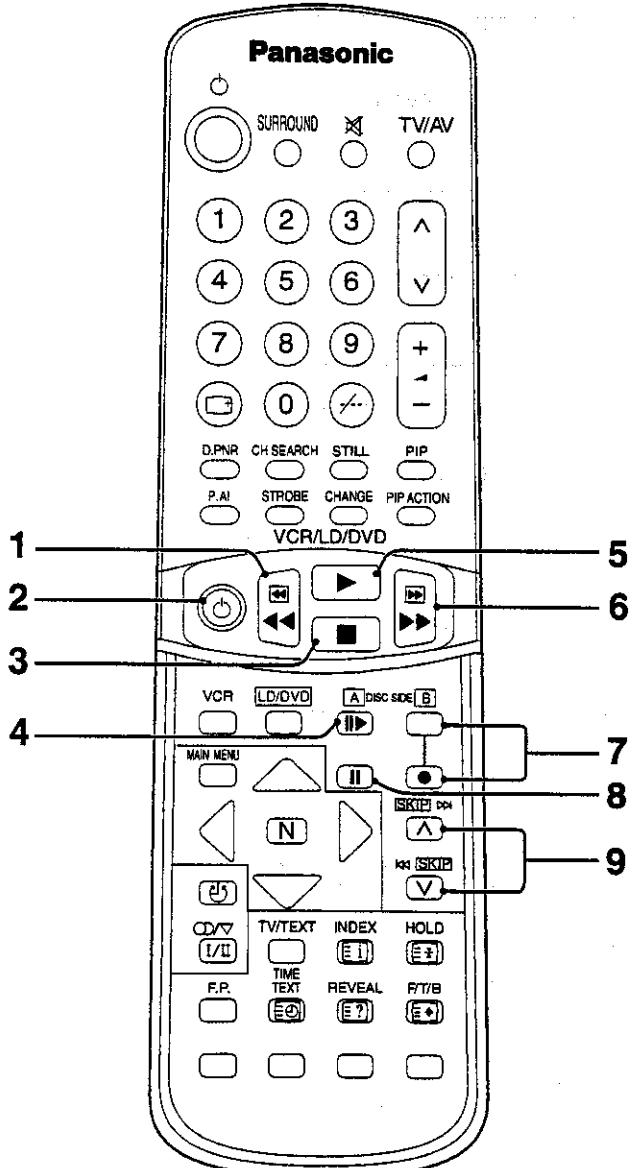
After setting, execute operation confirmation.
If there is no operation, set a different code.

Helpful Hint

- (1) The respective VCR / LD / DVD manufacturer code is cancelled when battery has been exchanged.
Please set it again.
- (2) Depending on the model, operation of VCR's, LD's or DVD's of the manufacturers listed above may not be possible.
- (3) In some cases, new products may not be operative.
- (4) It will not operate with other than the above manufacturers.

Operation of the VCR / LD / DVD

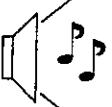
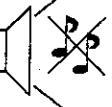
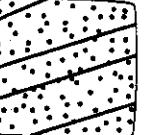
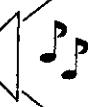
Execute the various operations after pushing the VCR or LD / DVD button.



| Button | Function | |
|--------|-------------------------------------|--------------------------------|
| | VCR | LD/DVD |
| 1 | Rew (Rewind) / Review Button | Rew (Rewind) / Review Button |
| 2 | VCR Power Button | LD / DVD Power Button |
| 3 | Stop Button | Stop Button |
| 4 | Still Advance Button | DISC SIDE A Selection Button |
| 5 | Play Button | Play Button |
| 6 | FF (Fast Forward) / Cue Button | FF (Fast Forward) / Cue Button |
| 7 | Rec (Record) Button | DISC SIDE B Selection Button |
| 8 | Pause / Still Button | Pause / Still Button |
| 9 | Programme Number Up and Down Button | Programme Skip Button |

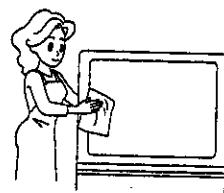
Troubleshooting

Before you call for service, determine the symptoms and make a few simple checks as shown below.

| Symptoms | | Checks |
|---|---|--|
| Picture | Sound | |
|  |  Noisy Sound | Aerial Location, direction or Connections |
|  |  Normal Sound | Aerial Location, direction or Connections |
|  |  Noisy Sound | Electrical Appliances Cars / Motorcycles Fluorescent Lamps |
|  |  No Sound | Volume (Check whether the mute function has been activated by the Remote Control.) |
|  |  No Sound | Not plugged into AC outlet Not switched on Contrast and Brightness / Volume setting (Check by pushing the Power Switch or Stand-by button on the Remote Control.) |
|  |  Normal Sound | Colour Control |
|  |  Normal or Weak Sound | Retune Channels |
|  |  Normal Sound | Convergence Adjustment (Refer to page 10) |
|  |  Noisy Sound | Sound System (Refer to page 34) Colour System (Refer to page 35) |

Cleaning

To ensure continued excellent performance by this product, periodic cleaning is recommended.

| | | | |
|--|--|---|--|
|  | <p>The unit contains many plastic parts. For this reason DO NOT use benzine, thinner or other chemicals to clean the unit.</p> |  | <p>Dust will accumulate on the picture screen. Please wipe with the supplied soft cloth from time to time. If you use a chemically treated cloth, please be careful to follow the instructions that come with the cloth.</p> |
|  | <p>DO NOT bring into contact with insecticide or other volatile substances. DO NOT allow the unit to come into contact for extended periods with rubber or vinyl products.</p> |  | <p>Remove dirt and soiling by wiping with a light cloth. Even if the unit is heavily soiled, do not apply cleaner directly to the unit. Soak a cloth in a solution of neutral cleanser thinned with water. Then wring out the cloth, wipe the unit clean, and finish by wiping with a dry cloth. Do not use any type of cleansers on the picture screen.</p> |

Specifications

| Power Source | TX-51P15X TX-43P15X AC Auto 110-240 V, 50/60 Hz | TC-51P15G, TC-51P15H TX-51P15H, TC-43P15G TC-43P15H, TX-43P15H AC 220-240 V, 50 / 60 Hz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|--|------------|--|----------|---|-------------|--|---|-------|---|----------|---|------------|---|------------|---|----------|---|----------------------------|---|-------------------|-----------------------------|---|-------------------|----|-------------------|----|-------------------|----|-------------------|----|-------------------|----|---------|----|-------------------|--|----|-------------------|----|-------------------|----|---------------------|----|---------------------|----|---------------------|----|--------------------|
| Power Consumption | 193 W Stand-by condition 0.4 W | 188 W Stand-by condition 0.4 W | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Receiving System | <table border="1"> <thead> <tr> <th colspan="2">21 Systems</th> <th>Function</th> </tr> </thead> <tbody> <tr> <td>1</td><td>PAL B, G, H</td><td rowspan="7">Reception of broadcast transmissions and Playback from Video Cassette Tape Recorders</td></tr> <tr> <td>2</td><td>PAL I</td></tr> <tr> <td>3</td><td>PAL D, K</td></tr> <tr> <td>4</td><td>SECAM B, G</td></tr> <tr> <td>5</td><td>SECAM D, K</td></tr> <tr> <td>6</td><td>SECAM K1</td></tr> <tr> <td>7</td><td>NTSC M (NTSC 3.58/4.5 MHz)</td></tr> <tr> <td>8</td><td>NTSC 4.43/5.5 MHz</td><td rowspan="7">Playback from Special VCR's</td></tr> <tr> <td>9</td><td>NTSC 4.43/6.0 MHz</td></tr> <tr> <td>10</td><td>NTSC 4.43/6.5 MHz</td></tr> <tr> <td>11</td><td>NTSC 3.58/5.5 MHz</td></tr> <tr> <td>12</td><td>NTSC 3.58/6.0 MHz</td></tr> <tr> <td>13</td><td>NTSC 3.58/6.5 MHz</td></tr> <tr> <td>14</td><td>SECAM I</td></tr> <tr> <td>15</td><td>PAL 60 Hz/5.5 MHz</td><td rowspan="9">Playback from Special Disc Players and Special VCR's</td></tr> <tr> <td>16</td><td>PAL 60 Hz/6.0 MHz</td></tr> <tr> <td>17</td><td>PAL 60 Hz/6.5 MHz</td></tr> <tr> <td>18</td><td>SECAM 60 Hz/5.5 MHz</td></tr> <tr> <td>19</td><td>SECAM 60 Hz/6.0 MHz</td></tr> <tr> <td>20</td><td>SECAM 60 Hz/6.5 MHz</td></tr> <tr> <td>21</td><td>NTSC 50 Hz/4.5 MHz</td></tr> </tbody> </table> | | 21 Systems | | Function | 1 | PAL B, G, H | Reception of broadcast transmissions and Playback from Video Cassette Tape Recorders | 2 | PAL I | 3 | PAL D, K | 4 | SECAM B, G | 5 | SECAM D, K | 6 | SECAM K1 | 7 | NTSC M (NTSC 3.58/4.5 MHz) | 8 | NTSC 4.43/5.5 MHz | Playback from Special VCR's | 9 | NTSC 4.43/6.0 MHz | 10 | NTSC 4.43/6.5 MHz | 11 | NTSC 3.58/5.5 MHz | 12 | NTSC 3.58/6.0 MHz | 13 | NTSC 3.58/6.5 MHz | 14 | SECAM I | 15 | PAL 60 Hz/5.5 MHz | Playback from Special Disc Players and Special VCR's | 16 | PAL 60 Hz/6.0 MHz | 17 | PAL 60 Hz/6.5 MHz | 18 | SECAM 60 Hz/5.5 MHz | 19 | SECAM 60 Hz/6.0 MHz | 20 | SECAM 60 Hz/6.5 MHz | 21 | NTSC 50 Hz/4.5 MHz |
| 21 Systems | | Function | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | PAL B, G, H | Reception of broadcast transmissions and Playback from Video Cassette Tape Recorders | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | PAL I | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | PAL D, K | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | SECAM B, G | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | SECAM D, K | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | SECAM K1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | NTSC M (NTSC 3.58/4.5 MHz) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | NTSC 4.43/5.5 MHz | Playback from Special VCR's | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | NTSC 4.43/6.0 MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | NTSC 4.43/6.5 MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | NTSC 3.58/5.5 MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | NTSC 3.58/6.0 MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | NTSC 3.58/6.5 MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | SECAM I | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | PAL 60 Hz/5.5 MHz | Playback from Special Disc Players and Special VCR's | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | PAL 60 Hz/6.0 MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | PAL 60 Hz/6.5 MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | SECAM 60 Hz/5.5 MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | SECAM 60 Hz/6.0 MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | SECAM 60 Hz/6.5 MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21 | NTSC 50 Hz/4.5 MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Receiving Channels | <p>Regular TV</p> <p>VHF BAND</p> <p>2-12 (PAL / SECAM B, K1) 0-12 (PAL B AUST.) 1-9 (PAL B N.Z.) 1-12 (PAL / SECAM D) 1-12 (NTSC M Japan) 2-13 (NTSC M U.S.A)</p> <p>CATV</p> <p>S1-S20 (OSCAR) 1-125 (U.S.A CATV) C13-C49 (JAPAN) S21-S41 (HYPER) Z1-Z37 (CHINA) 5A, 9A (AUST.)</p> <p>UHF BAND</p> <p>21-69 (PAL G, H, I / SECAM G, K, K1) 28-69 (PAL B AUST.) 13-57 (PAL D, K) 13-62 (NTSC M Japan) 14-69 (NTSC M U.S.A)</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Receiving Stereo System | NICAM 1, NICAM B/G, NICAM D, A2 (German) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Specifications

| | | | |
|----------------------------------|--|--|---|
| Tuning System | Frequency synthesizer Auto Search Tuning | | |
| | POS (Position) | : 100 Position | |
| | DIRECT | : 125 Position | |
| Audio Output | TX-51P15H, TX-51P15X, TC-51P15H TX-43P15H, TX-43P15X, TC-43P15H 26 W [13 W + 13 W] (MAX) 24 W [12 W + 12 W] (10 % THD) | TC-51P15G TC-43P15G 26W [13W + 13W] (MAX) 22W [11W + 11W] (7 % THD) | |
| Headphones | 3.5 mm Plug × 2 | | |
| Aerial Impedance | 75 Ω Unbalanced coaxial | | |
| Video/Audio Terminals | AV 1, 2, 3, 4 | S-Video In DVD (Y / Pb / Pr) Video In Audio In | Y:1 Vp-p, 75 Ω C:0.3 Vp-p, 75 Ω 1 Vp-p, 75 Ω Approx. 0.5 V 47 KΩ |
| | Monitor Out | Video Out Audio Out | 1 Vp-p, 75 Ω Approx. 0.5 V 1 KΩ |
| | AV1 IN (Rear) : S-Video, Video, Audio L/R terminals AV2 IN (Front) : S-Video, Video, Audio L/R terminals AV3 IN (Rear) : Video, Audio L/R terminals AV4 IN (Rear) : Video or Y / Pb / Pr, Audio L/R terminals | | |
| Accessories Supplied | Remote control Transmitter R6 (AA) Battery × 2 75 Ω coaxial aerial plug | TNQE194 TX-51P15H, TX-51P15X TNQE196 TC-51P15H, TC-51P15G TNQE196 TC-43P15H, TC-43P15G | |
| Dimensions (W × D × H) | TC / TX-51P15 Series 1095 mm × 500 mm × 1371 mm | TC / TX-43P15 Series 933 mm × 500 mm × 1261 mm | |
| Weight (Mass) | TX-51P15H, TX-51P15X, TC-51P15H: 61 kg (Net) TC-51P15G: 62 kg (Net) TX-43P15H, TX-43P15X, TC-43P15H: 53 kg (Net) TC-43P15G: 54 kg (Net) | | |

Note:

Design and Specifications are subject to change without notice. Weight and Dimensions shown are approximate.